# BaneNOR, Jernbaneteknikk
# Symbolbibliotek, signalsymboler

1. Forside og beskrivelse
2. Skjematisk plan
3. Skjematisk plan, Sporveksler
4. Plan og kabelplan
5. Togdeteksjon
6. Skjøteløse sporfelt. FTG-S. Forbindere
7. Lyssignaler
8. Veisikringsanlegg
9. ERTMS Skilt/signaler
10. Andre fag
11. Lag, linjetyper og tekst
12. For prosjekt

## Font: ISO3098.shx eller ISOCP.shx

## Units: Millimeter

## Dynamiske blokker

Blokker med funksjoner for fastsatt redigering.
Blokkene endres/redigeres med "GRIPS" gripepunkter eller i properties.

**DYNAMISKE GRIPS** Utforming og funksjon



Innsettingspunkt
**Basepoint**



Flytte i alle retninger
**Move**



Flytte langs en definert akse
**Linear**



Rotere rundt en akse
**Rotate**



Vende på objekt
**Flip**



Liste med valg
**Lookup**



Justere til objekt
**Align**

## Wipeout

Polygon ramme/område som maskerer underliggende objekter
Dette er på objekter der trim funksjon ikke er egnet.
**Draworder**; above objekt, dersom streker ikke blir skjult. **REDRAW**

WIPEOUTFRAME system variabel
0 -Rammen blir ikke vist eller plottet
1 -Rammen blir vist og plottet
2 -Rammen vises men ikke plottet

Fryses laget med Wipeout er ikke denne lenger aktiv

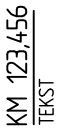
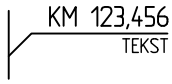
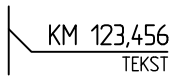
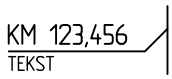
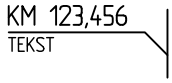
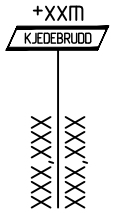
## Plot style table: Bane NOR.ctb

# 2. Skjematisk plan

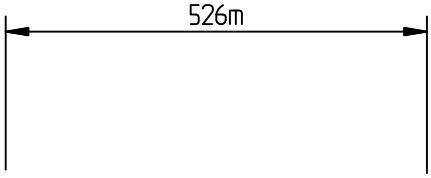
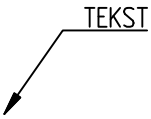
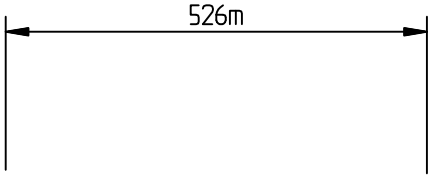
FAG: SA

Ark nr.: 2.1

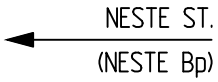
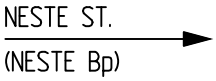
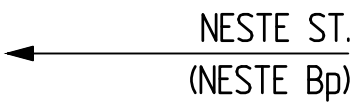
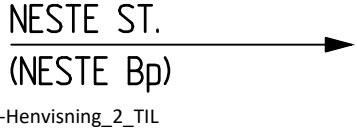
## Km markering

| Grafikk, blokk navn | Navn, beskrivelse. | Dynamiske funksjoner | Attributter |
|---|---|---|---|
|  KM tekst linje | Km markering | Strekke | KM<br>Beskrivelse |
|  KM tekst linje Hor 1 | Km markering horisontal | Strekke | KM<br>Beskrivelse |
|  KM tekst linje Hor 2 | Km markering horisontal under | Strekke | KM<br>Beskrivelse |
|  KM tekst linje Hor 3 | Km markering horisontal under (speilet) | Strekke | KM<br>Beskrivelse |
|  KM tekst linje Hor 4 | Km markering horisontal (speilet) | Strekke | KM<br>Beskrivelse |
|  KO_Kjedebrudd | Kjedebrudd | Strekke | Fra<br>Til<br>+/- M |
|  KJEDE01 | Kjedebrudd | | |

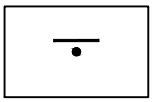
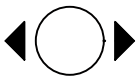
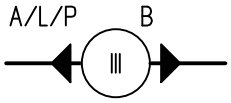
## Målsetting

| Grafikk, blokk navn | Navn, beskrivelse. | Dynamiske funksjoner | Attributter |
|---|---|---|---|
|  Dimstyle_PIL | Målsettingspil<br>i dim style Bane NOR | | |
|   | Målsetting<br><br>Dim style: Bane NOR | | |
|   | Leader<br><br>style: Bane NOR | | |
|   | Målsetting 1:500<br><br>Dim style: Bane NOR MS 0.5<br><br>Avstand blir ganget med 0.5 | | |

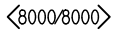
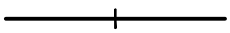
## Tegnings piler

| Grafikk, blokk navn | Navn, beskrivelse. | Dynamiske funksjoner | Attributter |
|---|---|---|---|
|   SA_ST-Henvisning_FRA | Henvisningspil (fra)<br>Neste stasjon<br>(Blokkpost)<br><br>Teksthøyde 2.5 | Strekke | Neste Stasjon<br>Neste Blokkpost |
|   SA_ST-Henvisning_TIL | Henvisningspil (til)<br>Neste stasjon<br>(Blokkpost)<br><br>Teksthøyde 2.5 | Strekke | Neste Stasjon<br>Neste Blokkpost |
|   SA_ST-Henvisning_2_FRA | Henvisningspil<br>Neste stasjon<br>(Blokkpost)<br><br>Teksthøyde 3.5 | Strekke | Neste Stasjon<br>Neste Blokkpost |
|   SA_ST-Henvisning_2_TIL | Henvisningspil<br>Neste stasjon<br>(Blokkpost)<br><br>Teksthøyde 3.5 | Strekke | Neste Stasjon<br>Neste Blokkpost |

## Forrigling

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_LOP |  | Lokal operatørplass eller stillerapparat.<br><br>Eks. vist med relèrom som tegnes | | |
|  SA_Togvei |  | Togvei/Skifteveistiller | Valg piler:<br>-Begge veier<br>-Mot A<br>-Mot B | T1 (Tekst inni)<br>TK1<br>TK2<br>TK3<br>TK4 |

## Punkt

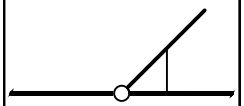
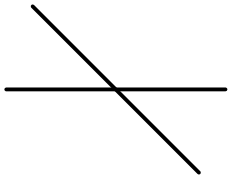
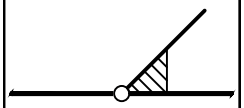
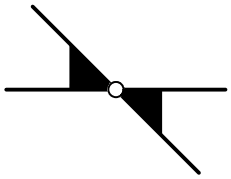
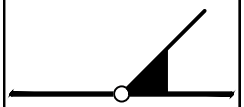
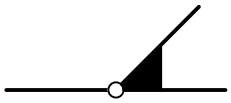
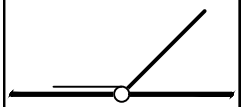
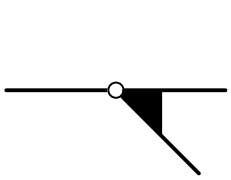
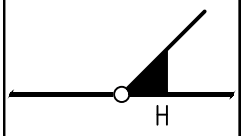
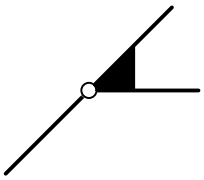
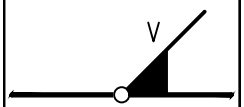
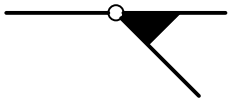
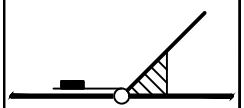
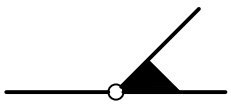
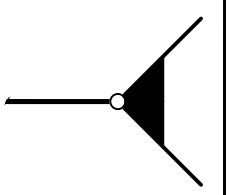
| | | | | |
|---|---|---|---|---|
|  SA_Punkt_Fiktiv_1 | | Fiktivt sluttpunkt/via punkt. Pil rettes i kjøreretning (Venstre justert) | | Tekst |
|  SA_Punkt_Fiktiv_2 | | Fiktivt sluttpunkt/via punkt. Pil rettes i kjøreretning (Høyre justert) | | Tekst |
|  SA_Punkt via | | Via punkt | | Tekst senter (/)<br>Tekst 1<br>Tekst 2 |
| | | | | |
|  SA_Avsnitt_grense |  | Akselteller/tellepunkt<br>Grense mellom deteksjonsavsnitt.<br>Vist med spormidt | | |

# 3. Skjematisk plan, Sporveksler

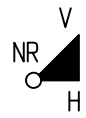
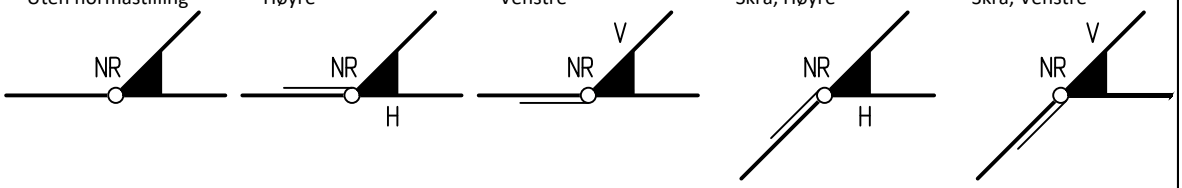
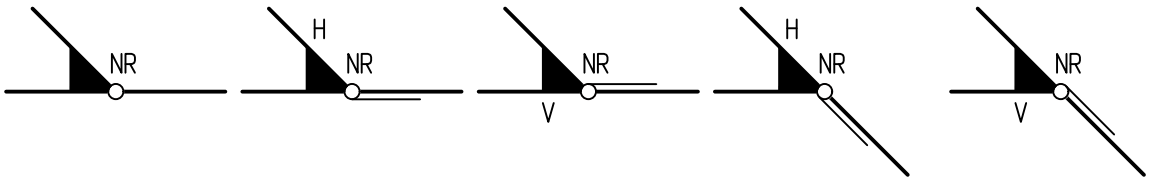
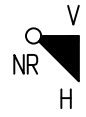
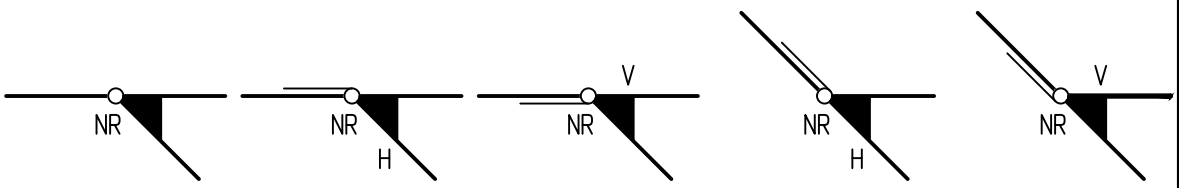
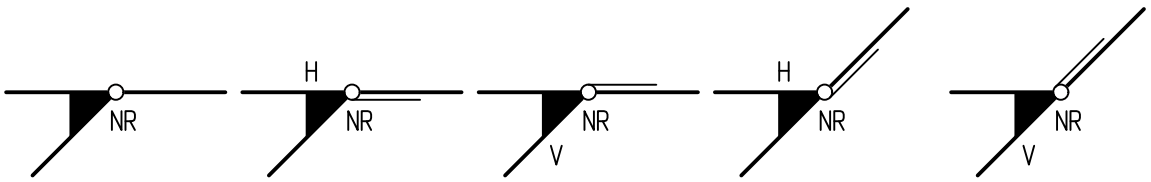
FAG: SA

Ark nr.: 3.1

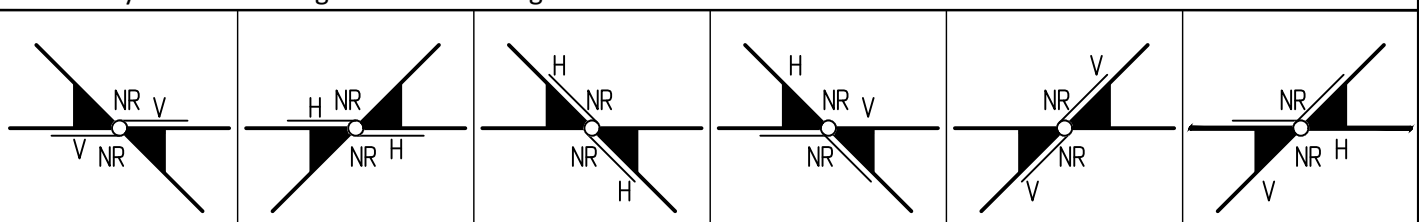
Forklaring

| Grafikk | Navn, beskrivelse. | Grafikk | Navn, beskrivelse. |
|---|---|---|---|
|  | Håndstilt sporveksel som ikke inngår i sikringsanlegget |  | Sporkryss (forklaring) |
|  | Håndstilt sporveksel |  | Dobbel kryssveksel<br><br>Benytt to aktuelle veksler med samme innsettingspunkt |
|  | Sentralstilt sporveksel |  | Rettspor til høyre (Sentralstilt) |
|  | Tungespiss på veksel |  | Rettspor til venstre (Sentralstilt) |
|  | Normastilling for kjøring til høyre (Sentralstilt)<br><br>Tidligere ble det benyttet + istedenfor H |  | Rettspor til Venstre (Sentralstilt, tegnet som skråveksel) |
|  | Normalstilling for kjøring til venstre (Sentralstilt)<br><br>Tidligere ble det benyttet + istedenfor V |  | NSS: Rettspor til venstre<br>L2: Rettspor til høyre (Sentralstilt)<br>Anbefales ikke benyttet |
|  | Kontrollåst sporveksel vist til høyre spor (Håndstilt sporveksel) |  | NSS: Rettspor til venstre<br>L2: Rettspor til høyre (Sentralstilt)<br>Anbefales ikke benyttet |
|  | Splittet veksel<br><br>Benyttes når spor svinger både til høyre og venstre | | Definisjon: Rettspor menes spor med størst radius |

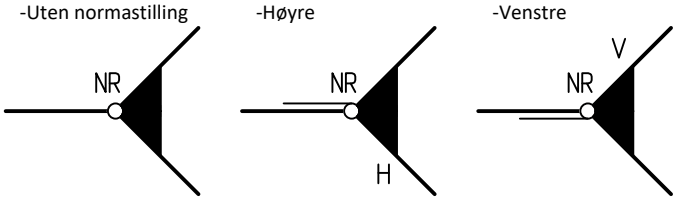
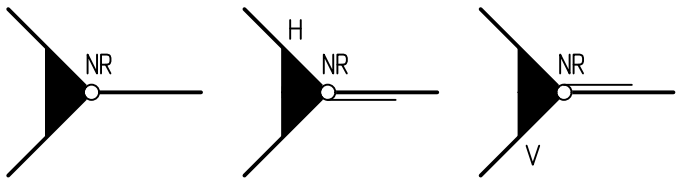
## Sentralstilt sporveksel

| Grafikk, blokk navn | Dynamisk valg |
|---|---|
|  SA_Sporveksel_sent_1 | -Uten normastilling -Høyre -Venstre -Skrå, Høyre -Skrå, Venstre  |
|  SA_Sporveksel_sent_2 |  |
|  SA_Sporveksel_sent_3 |  |
|  SA_Sporveksel_sent_4 |  |

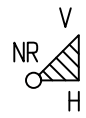
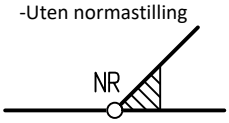
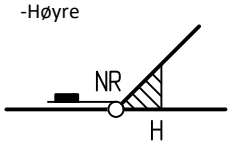
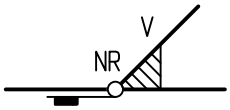
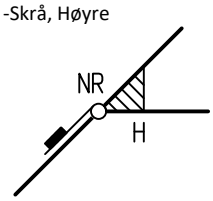
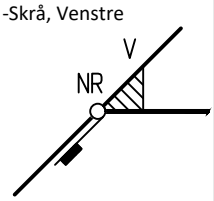
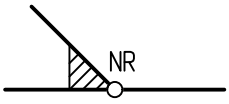
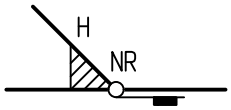
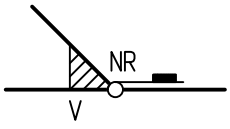
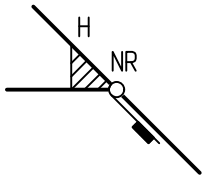
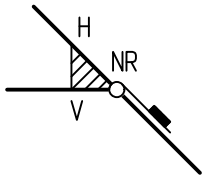
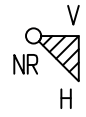
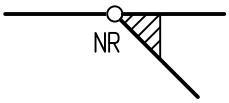
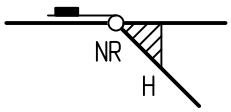
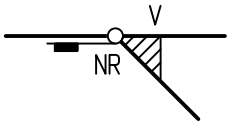
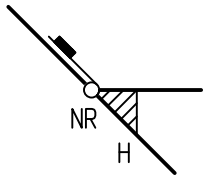
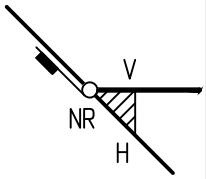
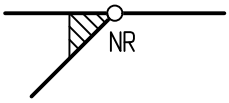
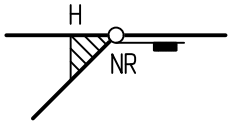
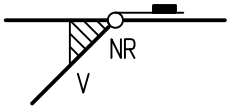
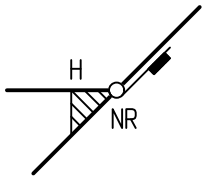
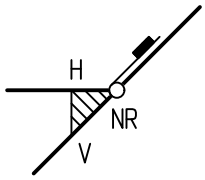
## Dobbel kryssveksel i utvalgte sammenstillinger



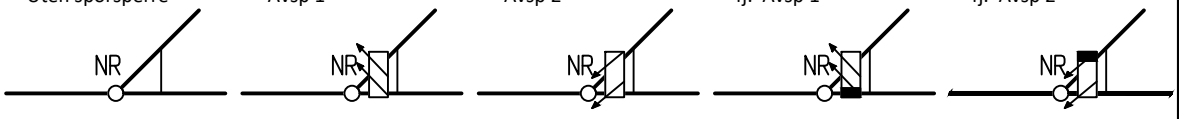
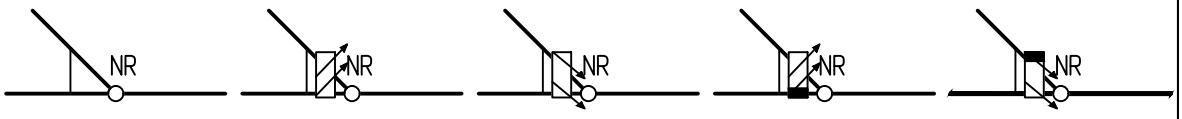
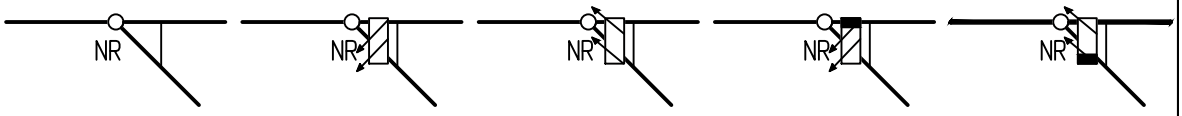
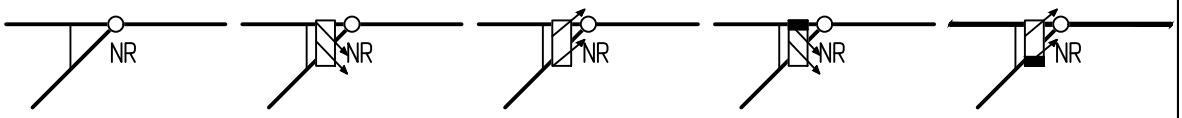

## Splittet veksel

| | |
|---|---|
|  SA_Sporveksel_splitt_sent_1 | -Uten normastilling -Høyre -Venstre  |
|  SA_Sporveksel_splitt_sent_2 |  |

## Håndstilt sporveksel

| Grafikk, blokk navn | Dynamisk valg | | | | |
|---|---|---|---|---|---|
| | -Uten normastilling | -Høyre | -Venstre | -Skrå, Høyre | -Skrå, Venstre |
|  SA_Sporveksel_laast_1 |  |  |  |  |  |
|  SA_Sporveksel_laast_2 |  |  |  |  |  |
|  SA_Sporveksel_laast_3 |  |  |  |  |  |
|  SA_Sporveksel_laast_4 |  |  |  |  |  |

## Håndstilt sporveksel som ikke inngår i sikringsanlegget

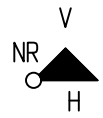
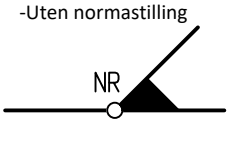
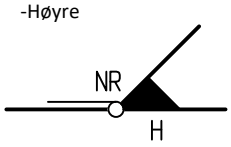
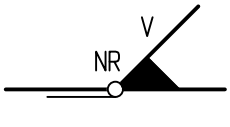
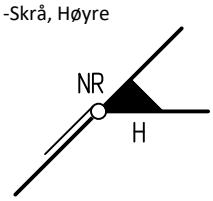
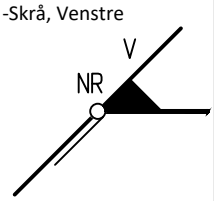
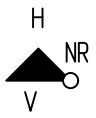
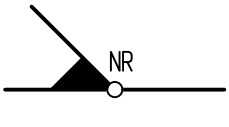
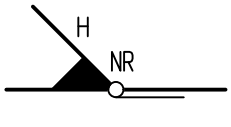
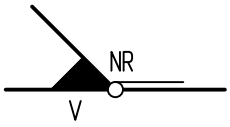
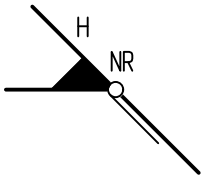
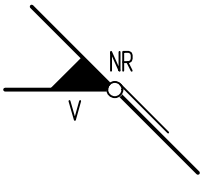
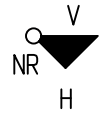
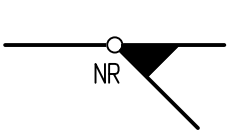
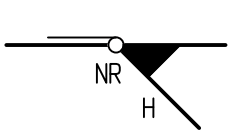
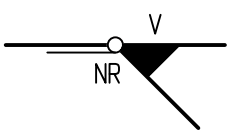
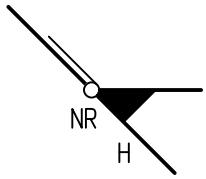
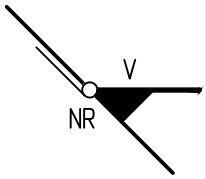
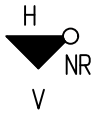
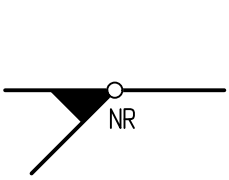
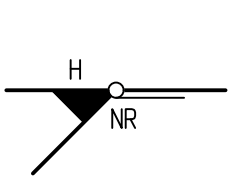
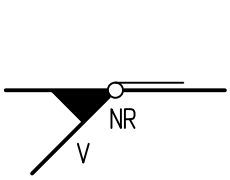
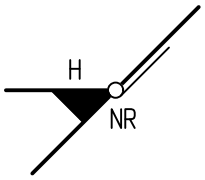
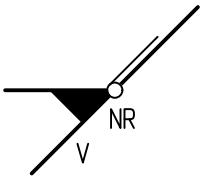
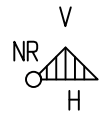
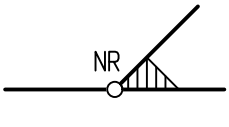
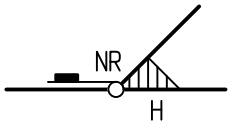
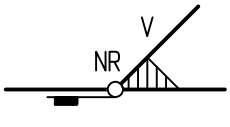
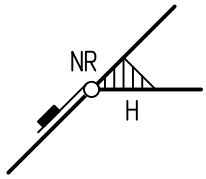
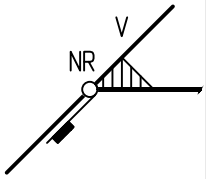
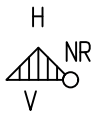
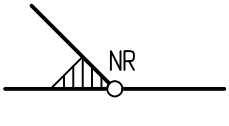
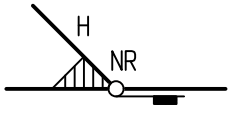
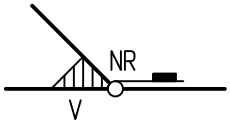
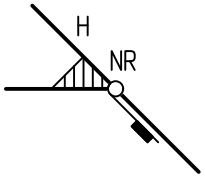
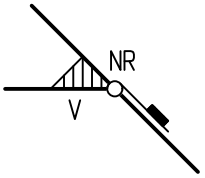
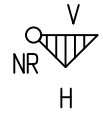
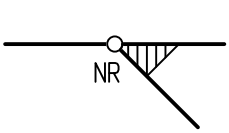
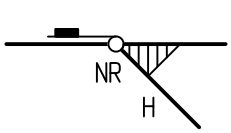
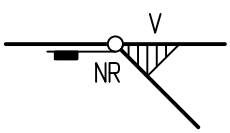
| Grafikk, blokk navn | Dynamisk valg med sporsperre |
|---|---|
|  SA_Sporveksel_man_1 | -Uten sporsperre -Avsp 1 - Avsp 2 -fj. Avsp 1 -fj. Avsp 2  |
|  SA_Sporveksel_man_2 |  |
|  SA_Sporveksel_man_3 |  |
|  SA_Sporveksel_man_4 |  |

# 3. Skjematisk plan, Sporveksler

FAG: SA

Ark nr.: 3.5

## Alternativ sporveksel

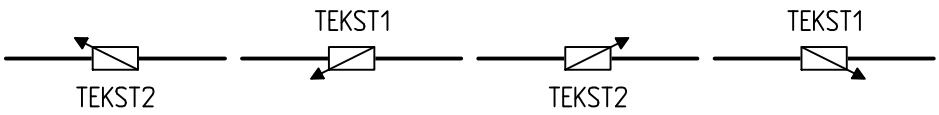
| Grafikk, blokk navn | Dynamisk valg | | | | |
|---|---|---|---|---|---|
| | -Uten normastilling | -Høyre | -Venstre | -Skrå, Høyre | -Skrå, Venstre |
|  SA_Sporveksel_sent_1_Alt |  |  |  |  |  |
|  SA_Sporveksel_sent_2_Alt |  |  |  |  |  |
|  SA_Sporveksel_sent_3_Alt |  |  |  |  |  |
|  SA_Sporveksel_sent_4_Alt |  |  |  |  |  |
|  SA_Sporveksel_laast_1_Alt |  |  |  |  |  |
|  SA_Sporveksel_laast_2_Alt |  |  |  |  |  |
|  SA_Sporveksel_laast_3_Alt |  |  |  |  |  |
|  SA_Sporveksel_laast_4_Alt |  |  |  |  |  |

## Sporsperre og avsporingstunge

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Sporsperre | | Sporsperre | Valg (se under) | TEKST1<br>TEKST2 |

Avsporingsretning, valg:

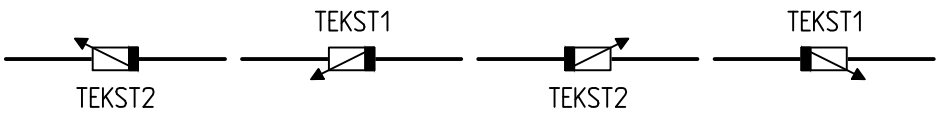
-Avsp 1 -Avsp 2 -Avsp 3 -Avsp 4




| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Sporsperre_sent | | Sporsperre sentralstilt | Valg (se under) | TEKST1<br>TEKST2 |

Avsporingsretning, valg:

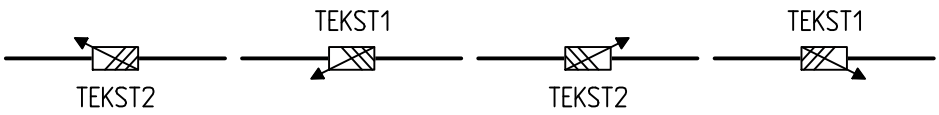
-Avsp 1 -Avsp 2 -Avsp 3 -Avsp 4



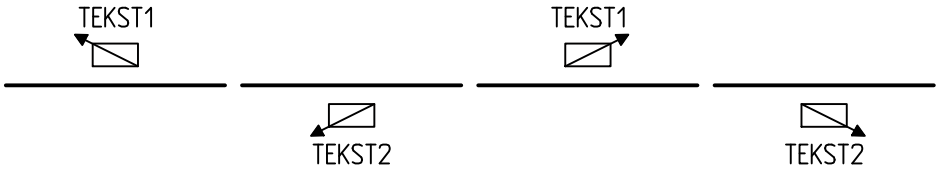

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Sporsperre_man | | Sporsperre<br>Manuelt kontrollert med<br>S-lås | Valg (se under) | TEKST1<br>TEKST2 |

Avsporingsretning, valg:

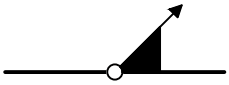
-Avsp 1 -Avsp 2 -Avsp 3 -Avsp 4




## Avlagt sporsperre




Symbol som over men flyttes 4 mm til siden for spor

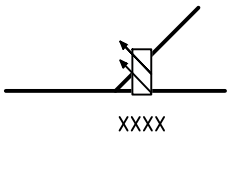
| | | | | |
|---|---|---|---|---|
|  SA_Avsporingstunge |  | Dobbel avsporingstunge | Rotere (Vinkel) | |

## Sporsperre og avsporingstunge

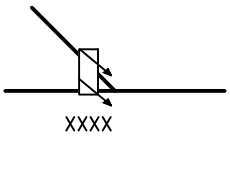
| Grafikk, blokk navn | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|
|  SA_Sporsperre_dobbel | Dobbel sporsperre | Valg (se under) | TEKST |

Avsporingsretning, valg:

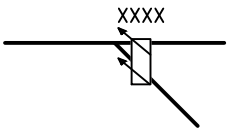
-1 avsp mot høyre



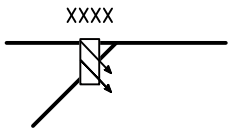

-2 avsp mot høyre

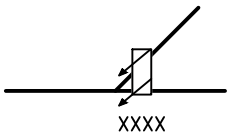


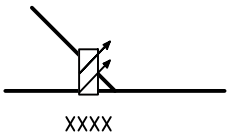

-3 avsp mot høyre

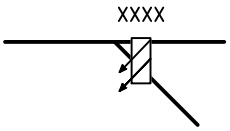


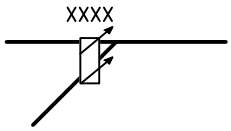

-4 avsp mot høyre




-1 avsp mot venstre

-2 avsp mot venstre

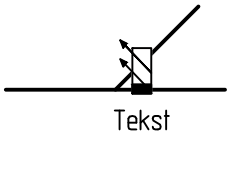
-3 avsp mot venstre

-4 avsp mot vestre

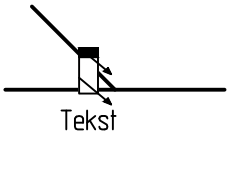
| Grafikk, blokk navn | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|
|  SA_Sporsperre_dobbel_sent | Dobbel sporsperre Sentralstilt | Valg (se under) | TEKST |

Avsporingsretning, valg:

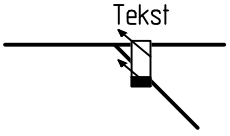
-1 avsp mot høyre



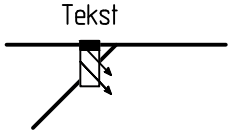

-2 avsp mot høyre

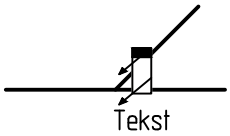


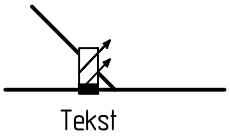

-3 avsp mot høyre

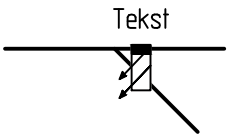


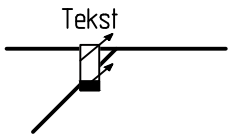

-4 avsp mot høyre




-1 avsp mot venstre

-2 avsp mot venstre

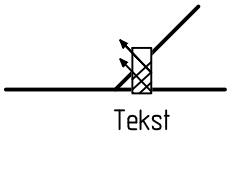
-3 avsp mot venstre

-4 avsp mot vestre

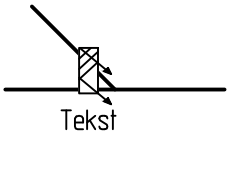
| Grafikk, blokk navn | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|
|  SA_Sporsperre_dobbel_man | Dobbel sporsperre Manuelt kontrolert med S-lås | Valg (se under) | TEKST |

Avsporingsretning, valg:

-1 avsp mot høyre




-2 avsp mot høyre

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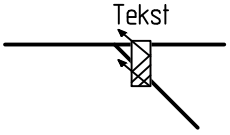
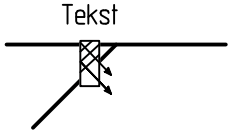
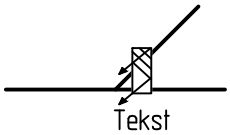
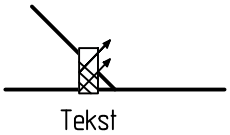
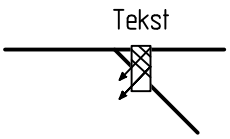


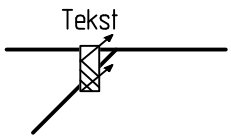

-4 avsp mot høyre




-1 avsp mot venstre

-2 avsp mot venstre

-3 avsp mot venstre

-4 avsp mot vestre

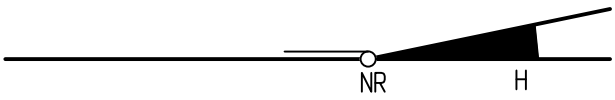
## Sporveksel, plantegning i målestokk

| Grafikk, blokk navn | Navn, beskrivelse. | Dynamiske funksjoner | Attributter |
|---|---|---|---|
|  SA_SPV_Sent_1 | Sentralstilt sporveksel. | Valg: Typer<br>Strekke skravur | NR |

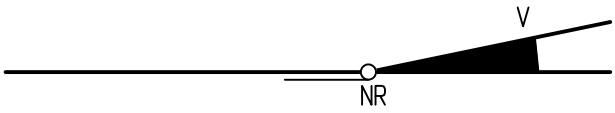
Dynamisk valg:

1:7

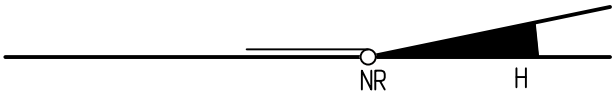
Høyre

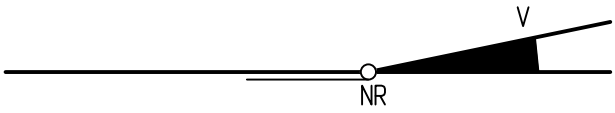



Venstre




1:9

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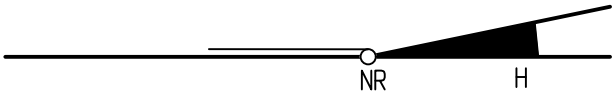
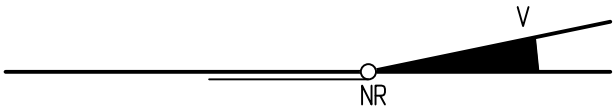
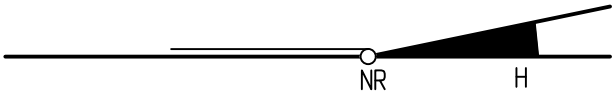
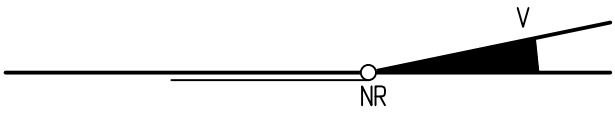


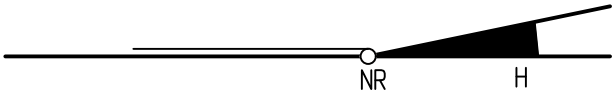



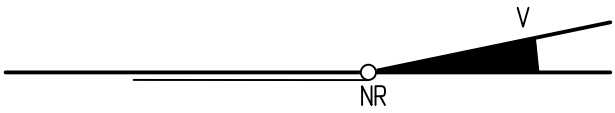

1:14



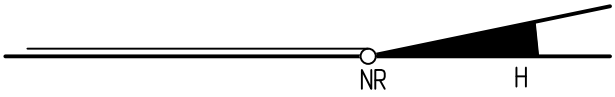



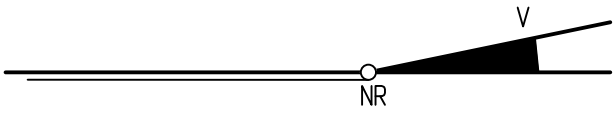

1:18




1:26



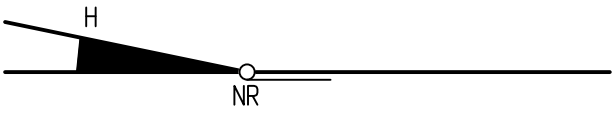



## Sporveksel, plantegning i målestokk

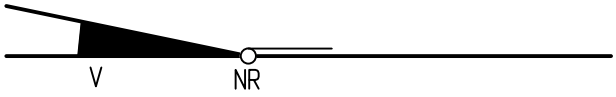
| Grafikk, blokk navn | Navn, beskrivelse. | Dynamiske funksjoner | Attributter |
|---|---|---|---|
|  SA_SPV_Sent_2 | Sentralstilt sporveksel. | Valg: Typer<br>Strekke skravur | NR |

Dynamisk valg:

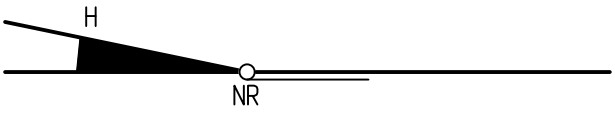
1:7 Høyre

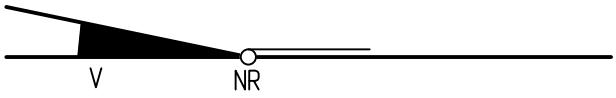



Venstre

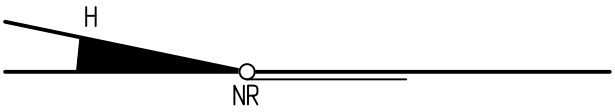


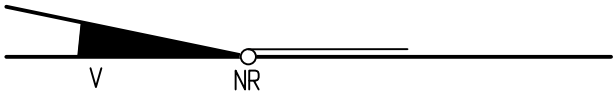

1:9



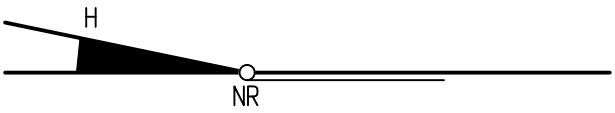



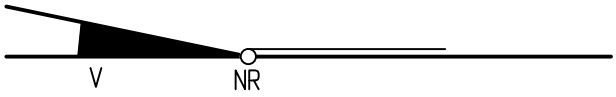

1:12



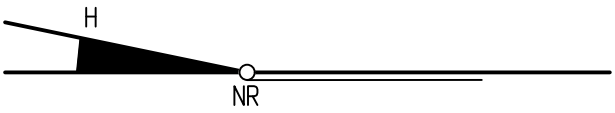



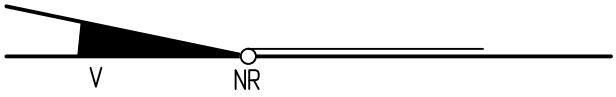

1:14



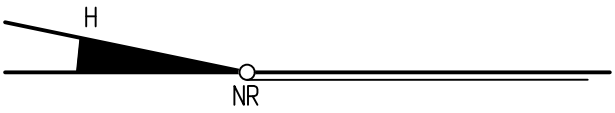



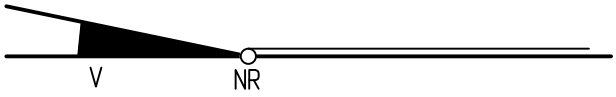

1:18




1:26



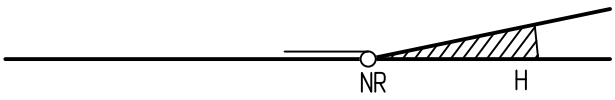
## Sporveksel, plantegning i målestokk

| Grafikk, blokk navn | Navn, beskrivelse. | Dynamiske funksjoner | Attributter |
|---|---|---|---|
|  SA_SPV_Lokal_1 | Lokalstilt sporveksel som inngår i sikringsanlegget. | Valg: Typer<br>Strekke skravur | NR |

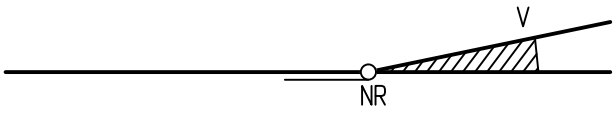
Dynamisk valg:

1:7

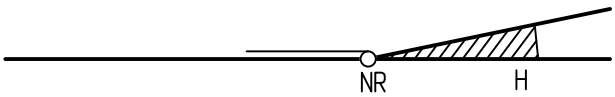
Høyre

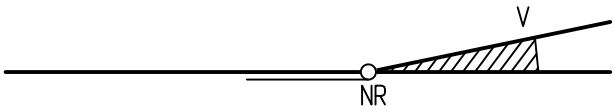



Venstre

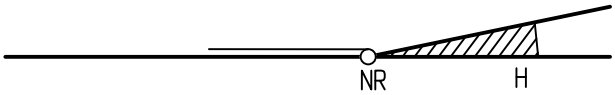


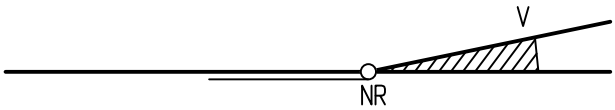

1:9



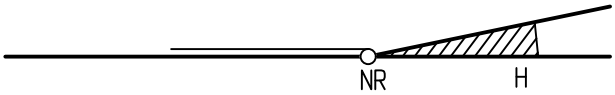



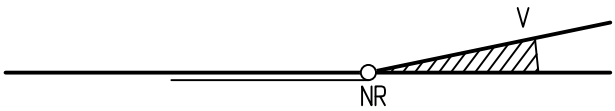

1:12



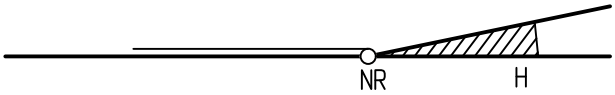



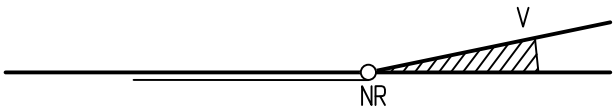

1:14



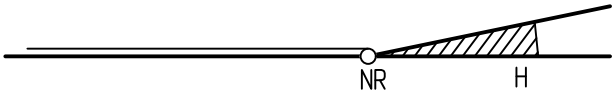



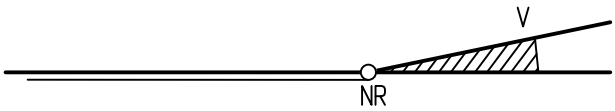

1:18



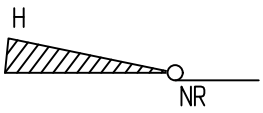




1:26



## Sporveksel, plantegning i målestokk

| Grafikk, blokk navn | Navn, beskrivelse. | Dynamiske funksjoner | Attributter |
|---|---|---|---|
|  SA_SPV_Lokal_2 | Lokalstilt sporveksel som inngår i sikringsanlegget. | Valg: Typer<br>Strekke skravur | NR |

Dynamisk valg:

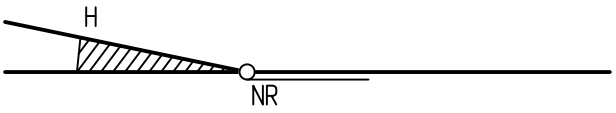
1:7 Høyre




Venstre




1:9







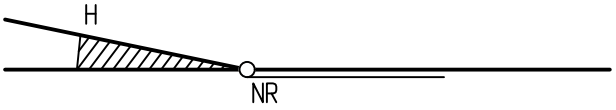
1:12







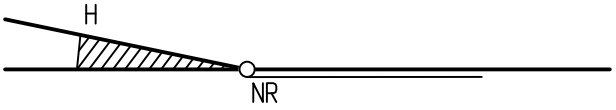
1:14







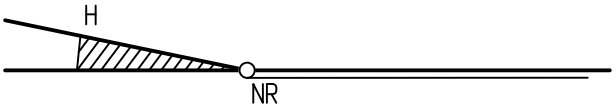
1:18







1:26

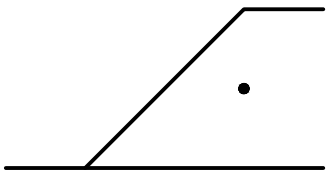




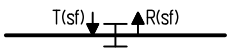
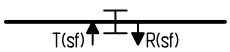

## Sporveksler

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
| SA_Drivmaskin | 1 | Drivmaskin | | TEKST1<br>TEKST2 |
| SA_Lokalstiller | 2 | Lokalstiller | | TEKST1<br>TEKST2 |
| SA_Rigel | 3 | Rigel | | TEKST1<br>TEKST2 |
| SA_S-las1 | TEKST<br>TEKST | Nøkkelapparat<br>Samlelås<br>S og Z lås | | TEKST1<br>TEKST2 |
| SA_S-las2 | TEKST<br>TEKST | Nøkkelapparat<br>Samlelås<br>S og Z lås | | TEKST1<br>TEKST2 |
| SA_Sporsperresignal | | Sporsperresignal | | |
| SA_Spv signal | | Sporveksel signal | | |

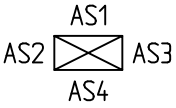
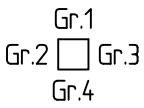
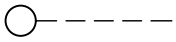
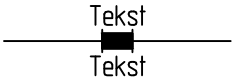
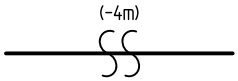
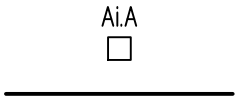
## Sporets middel

| | | | | |
|---|---|---|---|---|
| SA_Middel |  | Sporets middel | | |

## Sporfelt Tur/Retur

| | | | | |
|---|---|---|---|---|
| SA_Sf_Tilf_O |  | Sporfeltstrøm tilførsel eller retur, indikert med pil.<br>- Overside spor | Align i innsettingspunkt | T1<br>T2 |
| SA_Sf_Retur_O | | | Align i innsettingspunkt | R1<br>R2 |
| SA_Sf_Tilf_U |  | -Underside spor | Align i innsettingspunkt | T1<br>T2 |
| SA_Sf_Retur_U | | Vist med enlinje | Align i innsettingspunkt | R1<br>R2 |

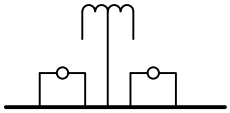
## Komponenter

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Apparatskap |   | Apparatskap (AS, VAS) | Flytte tekst til Originalplassering (Reset block) | TEKST1<br>TEKST2<br>TEKST3<br>TEKST4 |
|  SA_AS-ATC |   | Apparatskap ATC | Flytte tekst til Originalplassering (Reset block) | TEKST1<br>TEKST2<br>TEKST3<br>TEKST4 |
|  SA_Gruppeskap |   | Gruppeskap | Flytte tekst til Originalplassering (Reset block) | TEKST1<br>TEKST2<br>TEKST3<br>TEKST4 |
|  SA_Sveivskap |   | Sveivskap | Flytte tekst til Originalplassering (Reset block) | TEKST1<br>TEKST2<br>TEKST3<br>TEKST4 |
|  SA_Kum |  | Trekkekum, signal | | |
|  SA_Muffe skj |   | Skjøtemuffe | | TEKST1<br>TEKST2 |
|  SA_Muffe avgrening |   | Avgreiningsmuffe | | TEKST1<br>TEKST2 |
|   SA_Dim_skjoet |   | Dim skjøt | | TEKST |
|  SA_Avsporingsindikator |   | Avsporingsindikator | Flytte tekst til Originalplassering (Reset block) | TEKST1<br>TEKST2<br>TEKST3<br>TEKST4 |
|  SA_Noekkelskap 1 |   | Nøkkelskap | | ARB.OMR.<br>KM |
|  SA_Noekkelskap 2 |   | Nøkkelskap | | ARB.OMR.<br>KM |
|  SA_Lys |   | Lys/lampe | | TEKST1<br>TEKST2 |
|  KLOKKE | | Klokke | | |

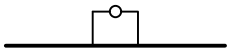
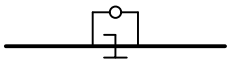
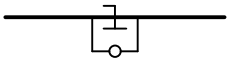
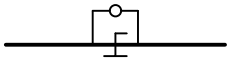
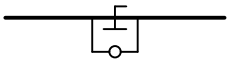
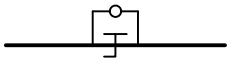
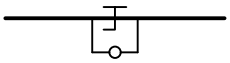
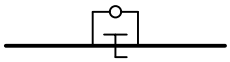
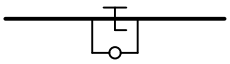
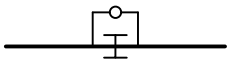
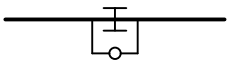
## Baliser

| Grafikk, blokk navn | Eksempel / Valg | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
| <br>SA_ATC_balise | <br>- Fast, første | Fast balise<br>Første balise i informasjonspunktet | Valg stipling:<br>- Fast, første<br>- Styrt, første<br>- Fast<br>- Styrt | Tekst |
| | <br>- Styrt, første | Styrt balise<br>Første balise i informasjonspunktet | | |
| | <br>- Fast | Fast balise | | |
| | <br>- Styrt | Styrt balise | | |
| Forklaring tekst |  | Prefiks balise (P-Balise) | | |
| Forklaring tekst |  | N-Balise<br>Ikke i nye anlegg | | |
| <br>SA_ATC_balisegruppe | | Samling baliser som er tegnet på annet skjema | | |

## Sugetransformator

| Grafikk, blokk navn | Eksempel / Valg | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Sugetrafo |  | Sugetransformator med tilkobling til nullfelt<br><br>Eksempel vist med overdragstafo<br>Sugetrafo scale 0.75 | | |
|  SA_Sugetrafo_2 | | Sugetransformator<br><br>S00583 | | |

## Overdragstransformator (dynamisk)

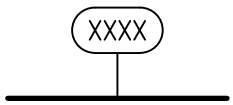
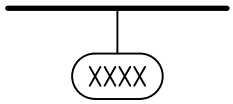
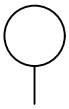
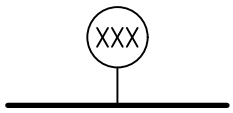
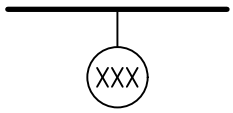
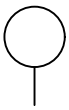
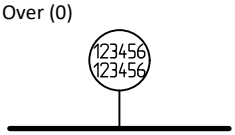
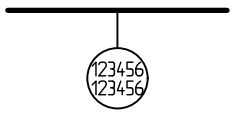
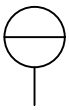
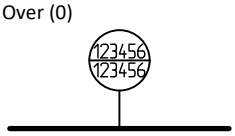
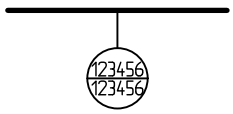
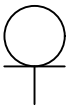
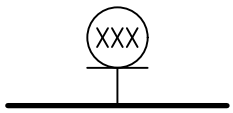
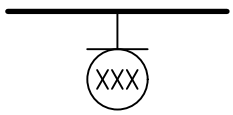
| | | | | |
|---|---|---|---|---|
|  SA_Overdragstrafo_enlinje |  -Uten sporisolering | Overdragstrafo med sporisolering (enlinje) | Valg: sporiso. over/under | |
| |  -Sporiso 1 |  | | |
| |  -Sporiso 2 |  | | |
| |  -Sporiso 3 |  | | |
| |  -Sporiso 4 |  | | |
| |  -Sporiso 5 dobbel |  | | |

# 5. Togdeteksjon

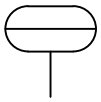
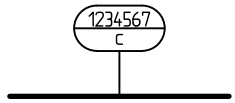
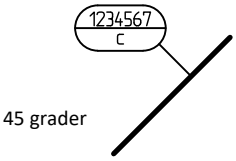
FAG: SA

Ark nr.: 5.1

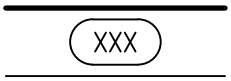
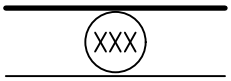
## Merking, deteksjonsavsnitt

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
| <br>SA_Avsnitt_1 | Over (0)<br><br><br>Under (180)<br><br> | Deteksjonsavsnitt | Valg: vinkel<br>(Rotere trinn på 45 grader) | TEKST |
| <br>SA_Avsnitt_2 | Over (0)<br><br><br>Under (180)<br><br> | Deteksjonsavsnitt | Rotere<br>(trinn på 15 grader) | TEKST |
| <br>SA_Avsnitt_3 | Over (0)<br><br><br>Under (180)<br><br> | Deteksjonsavsnitt | Rotere<br>(trinn på 15 grader) | TEKST1<br>TEKST2 |
| <br>SA_Avsnitt_4 | Over (0)<br><br><br>Under (180)<br><br> | Deteksjonsavsnitt, tilhører to ulike deteksjonsavsnitt. | Rotere<br>(trinn på 15 grader) | TEKST1<br>TEKST2 |
| <br>SA_Avsnitt_5 | Over (0)<br><br><br>Under (180)<br><br> | Deteksjonsavsnitt<br>tilknyttet SP-gruppe i NSB-77 | Rotere<br>(trinn på 15 grader) | TEKST |

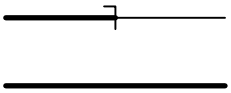
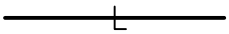
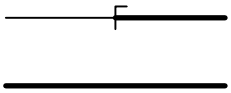
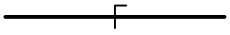
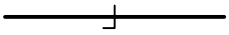
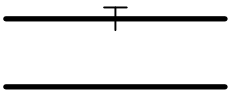
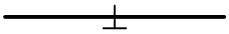
## Merking, deteksjonsavsnitt

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Avsnitt_6 | Over (0)     45 grader | Deteksjonsavsnitt | Valg: vinkel<br>(Rotere trinn på 45 grader)<br>Valg: stiplet | TEKST1<br>TEKST2 |

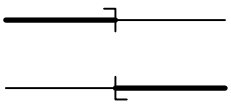
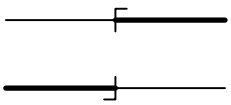
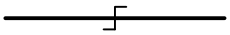
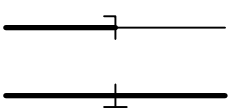
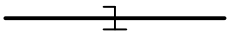
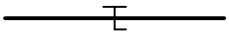
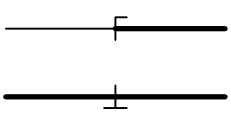
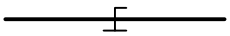
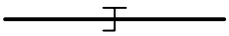
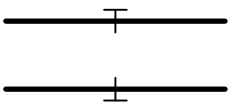
## Merking, deteksjonsavsnitt (Sporisolering)

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Avsnitt_1.2 |   | Deteksjonsavsnitt | | TEKST |
|  SA_Avsnitt_2.2 |   | Deteksjonsavsnitt | | TEKST |
|  SA_Avsnitt_3.2 |   | Deteksjonsavsnitt | | TEKST1<br>TEKST2 |
|  SA_Avsnitt_4.2 |   | Deteksjonsavsnitt, tilhører to ulike deteksjonsavsnitt. | | TEKST1<br>TEKST2 |

## Sporisolering (isolerende skinneskjøt)

| Grafikk, blokk navn | Eksempel med skinner | Eksempel enlinje (spormidt) | Rotert 180 | Navn, beskrivelse. |
|---|---|---|---|---|
|  SA_iso_skj_1 |  |  |  | Isolerende skinneskjøt<br><br>Tykk strek - isolert skinne (rød)<br><br>Tynn strek - uisolert skinne (gul)<br><br>Enlinje/spormidt (blå) |
|  SA_iso_skj_2 |  |  |  | |
|  SA_iso_skj_3 |  |  |  | |

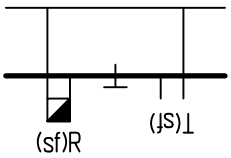
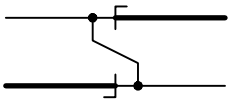
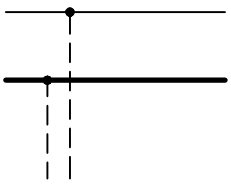
## Sporisolering, Enlinje

| Grafikk, blokk navn | Forklaring med skinner | Eksempel enlinje (spormidt) | Rotert 180 |
|---|---|---|---|
|  SA_iso_skj_4 |  |  | |
|  SA_iso_skj_5 |  |  | |
|  SA_iso_skj_6 |  |  |  |
|  SA_iso_skj_7 |  |  |  |
|  SA_iso_skj_8 |  |  | |

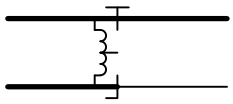
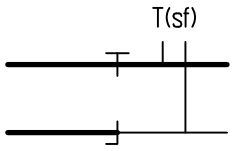
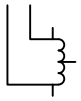
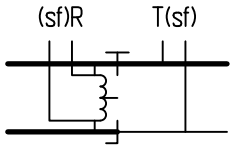
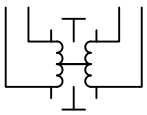
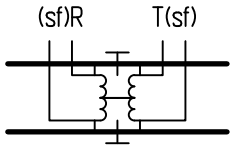
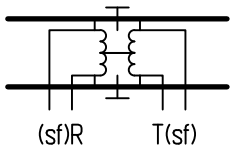
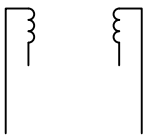
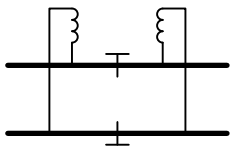
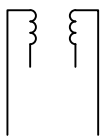
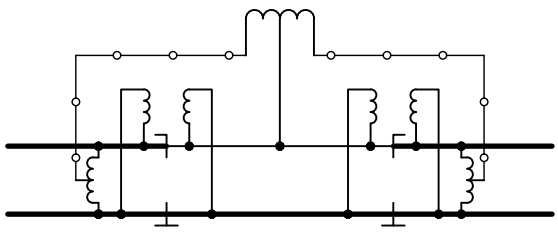
## Togdeteksjon

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. NORM: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Akselteller_1 | | Akselteller/tellepunkt tilhørende interlocking | | Tekst over<br>Tekst under |
|  SA_Akselteller_2 | | Akselteller/tellepunkt tilhørende veisikringsanlegg | | Tekst over<br>Tekst under |
|  SA_Akselteller_3 |  | Akselteller/tellepunkt tilhørende interlocking og veisikringsanlegg | Flippe side | Tekst over<br>Tekst under |

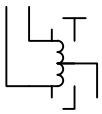
## Sporisolering (Komponenter)

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: NEK 144 | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Koblingspunkt | | Koblingspunkt S00016 | | |
|  SA_VERN |  | Overspenningsavleder<br>Overspenningsvern<br>Gjennomslagssikring S00373 | | |
|  SA_Tilkoblingskasse |  | Tilkoblingskasse for sporfelter/togdeteksjon. | | TEKST 1<br>TEKST 2<br>TEKST 3<br>TEKST 4 |
|  SA_Overkast |  | Overkast (av skinneskjøt) med koblingspunkt | | |
|  |  | "Overkast" sporfeltstrøm tilførsel/retur (mellom spor)<br><br>Vist med koblingspunkt | | |
|  | | Returledning<br>(denne er i bruk på EH dok.) | | |

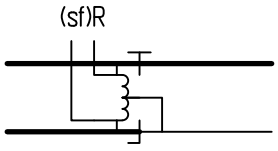
## Sporisolering (Komponenter)

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Filterimpedans |  | Filterimpedans | | |
|  SA_Sporfelt_TR |  | Sporfeltstrøm tilførsel eller retur | | T1 |
|  SA_IMP_TR |  | Filterimpedans med sporfeltstrøm tilførsel eller retur | | T1 |
|  SA_IMP_dobbel_TR |   | Sporisolering med dobbel filterimpedans | Valg tilf over eller under | T1<br>T2 |
|  SA_Overdragstrafo |  | Overdragstrafo | Strekke tilkobling filterimpedans (0-9) | |
|  SA_Overdragstrafo_S | Overdragstrafo for sammenstilling med sugetransformator  | | Strekke tilkobling filterimpedans (0-9) | |

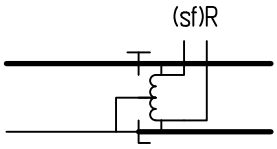
## Sporisolering. Sammenstillinger dynamiske

| Grafikk, blokk navn | Beskrivelse. | Dynamiske funksjoner | Attributter |
|---|---|---|---|
|  SA_IMP_TR_tilkobl | Sporisolering med filterimpedans tilkoblet uisolert skinne | Valg tilkobling uisolert skinne (se under) | T1 |

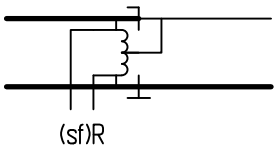
Valg 1



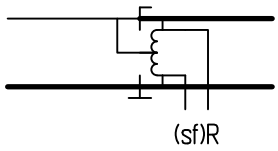

Valg 2



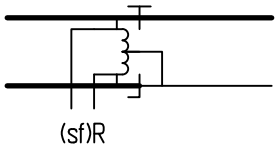

Valg 3



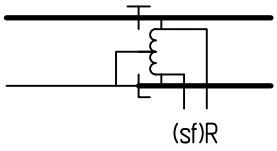

Valg 4



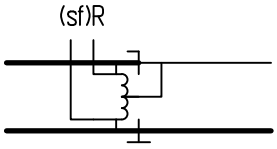

Valg 5



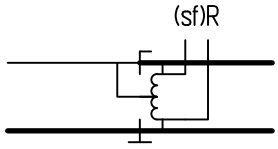

Valg 6

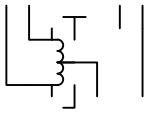



Valg 7

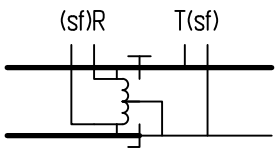



Valg 8

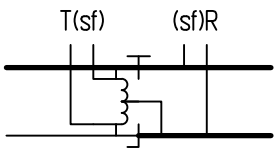



| Grafikk, blokk navn | Beskrivelse. | Dynamiske funksjoner | Attributter |
|---|---|---|---|
|  SA_IMP_sporfelt_TR_tilkobl | Sporisolering med filterimpedans tilkoblet uisolert skinne, sporfeltstrøm tilførsel og retur | Valg tilkobling uisolert skinne (se under) | T1<br>T2 |

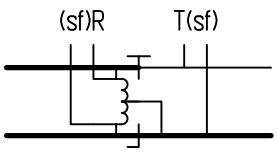
Valg 1



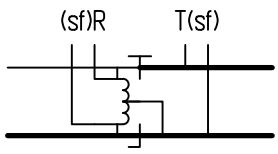

Valg 2



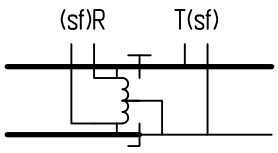

Valg 3



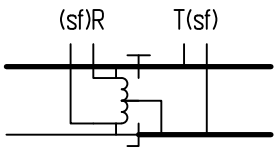

Valg 4



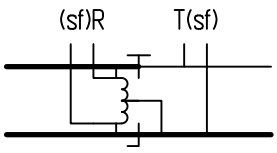

Valg 5



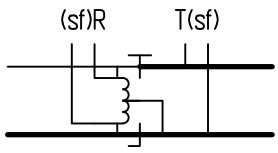

Valg 6




Valg 7



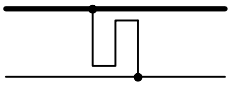
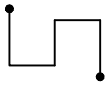
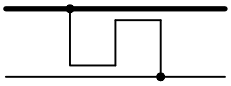
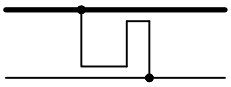
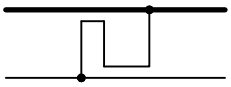
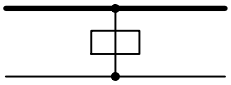
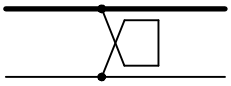
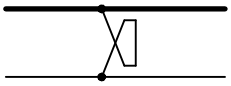
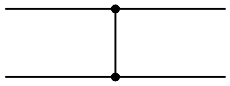

Valg 8



# 6. Skjøteløse sporfelt. FTG-S. Forbindere

| Fag | Ark nr. |
|---|---|
| SA | 6.1 |

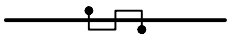
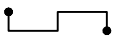
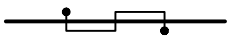
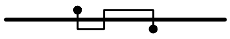
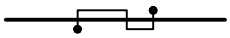
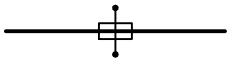
## Skjøteløse sporfelt. FTG-S. Forbindere

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_FTGS_ISO917 |  | S-forbinder FTG-S 917/917 | | |
|  SA_FTGS_ISO46 |  | S-forbinder FTG-S 46/46 | | |
|  SA_FTGS_ISO46917 |  | S-forbinder FTG-S 46/917 | | |
|  SA_FTGS_ISO91745 |  | S-forbinder FTG-S 917/46 | | |
|  SA_FTGS_MIDDCSTOR |  | Forbinder med potensialutligner | | |
|  SA_FTGS_ISOC46 |  | Endeforbinder FTG-S 46 | | |
|  SA_FTGS_ISOC917 |  | Endeforbinder FTG-S 917 | | |
|  SA_FTGS_Forbinder |  | Kortslutningsforbinder | | |

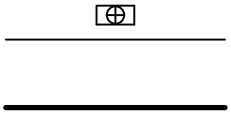
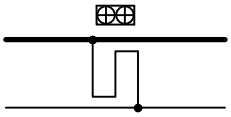
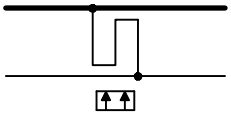
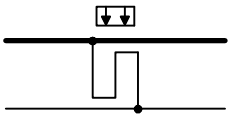
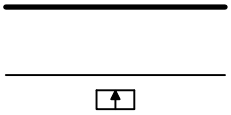
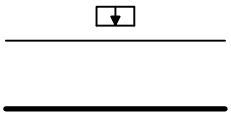
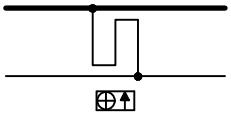
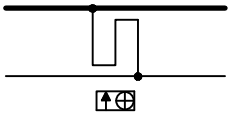
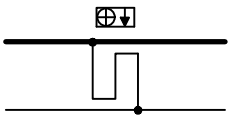
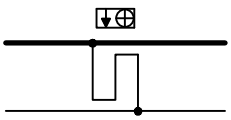
# 6. Skjøteløse sporfelt. FTG-S. Forbindere

| Fag | Ark nr. |
|---|---|
| SA | 6.2 |

## Skjøteløse sporfelt. FTG-S. Forbindere

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_FTGS_SBAND917 |  | S-forbinder FTG-S 917/917 | | |
|  SA_FTGS_SBAND046 |  | S-forbinder FTG-S 46/46 | | |
|  SA_FTGS_SBANDMIX |  | S-forbinder FTG-S 46/917 | | |
|  SA_FTGS_SBANDMIX_2 |  | S-forbinder FTG-S 917/46 | | |
|  SA_FTGS_MIDCON |  | Forbinder med potensialutligner | | |
|  SA_FTGS_MIDCON2 |  | Forbinder med potensialutligner | | |
|  SA_FTGS_ENDCON |  | Endeforbinder FTG-S 917 og FTG-S 46 | | |
|  SA_FTGS_SHORTCON |  | Kortslutningsforbinder | | |

## Skjøteløse sporfelt. FTG-S. Sendere og mottaker

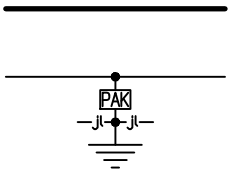
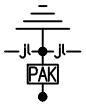
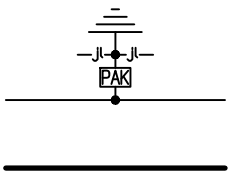
| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_FTGS_TRAREC1 |  | Mottaker (for ett sporfelt) | | OV (Tekst over til venstre)<br>OH (Tekst over til høyre)<br>UV (Tekst under til venstre)<br>UH (Tekst under til høyre) |
|  SA_FTGS_TRAREC2 |  | Mottaker (for to sporfelt) | | OV<br>OH<br>UV<br>UH |
|  SA_FTGS_TRAREC3 |  | Sender (for to sporfelt) | | OV<br>OH<br>UV<br>UH |
|  SA_FTGS_TRAREC4 |  | Sender (for to sporfelt) | | OV<br>OH<br>UV<br>UH |
|  SA_FTGS_TRAREC5 |  | Sender (for ett sporfelt) | | OV<br>OH<br>UV<br>UH |
|  SA_FTGS_TRAREC6 |  | Sender (for ett sporfelt) | | OV<br>OH<br>UV<br>UH |
|  SA_FTGS_TRAREC7 |  | Avstemt enhet (for to sporfelter) Sender og mottaker | | OV<br>OH<br>UV<br>UH |
|  SA_FTGS_TRAREC8 |  | Avstemt enhet (for to sporfelter) Sender og mottaker | | OV<br>OH<br>UV<br>UH |
|  SA_FTGS_TRAREC9 |  | Avstemt enhet (for to sporfelter) Sender og mottaker | | OV<br>OH<br>UV<br>UH |
|  SA_FTGS_TRAREC10 |  | Avstemt enhet (for to sporfelter) Sender og mottaker | | OV<br>OH<br>UV<br>UH |

# 6. Skjøteløse sporfelt. FTG-S. Forbindere

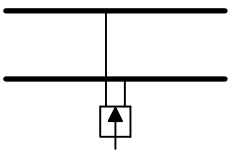
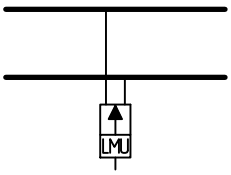
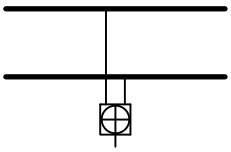
Fag: SA

Ark nr.: 6.4

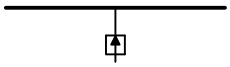
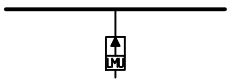
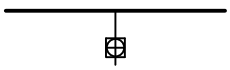
## Skjøteløse sporfelt. FTG-S. Sendere og mottaker

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_FTGS_Jord_PAK_1 |  | Jordet seksjonert jordleder med filter | | |
|  SA_FTGS_Jord_PAK_2 |  | Jordet seksjonert jordleder med filter | | |

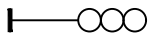
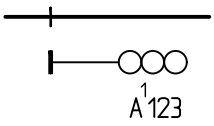
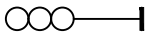
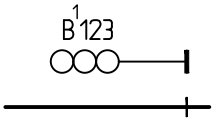
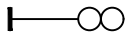
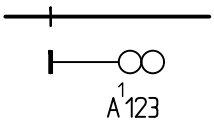
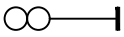
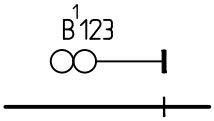
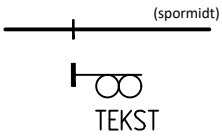
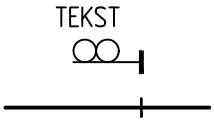
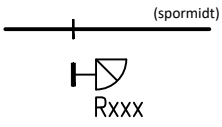
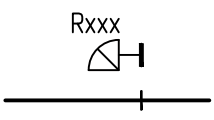
## Skjøteløse sporfelt. TI21. Symbol for sporisolering

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_TI21_Sender |  | Sender | | |
|   SA_TI21_Sender_LMU |   | Sender med LMU (forsterker) | | |
|  SA_TI21_Mottaker |  | Mottaker | | |

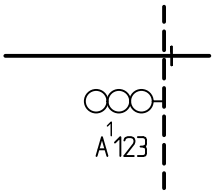
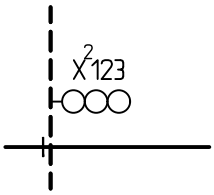
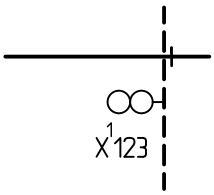
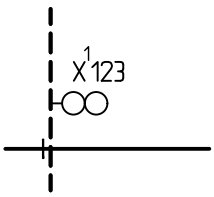
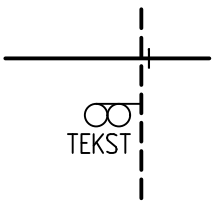
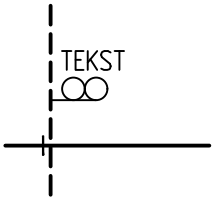
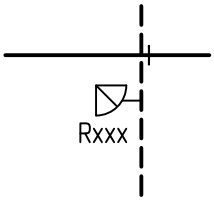
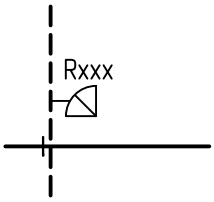
## TI21. Symbol for en-linje tegninger

| | | | | |
|---|---|---|---|---|
|  SA_TI21_Sender_1 |  | Sender | | |
|   SA_TI21_Sender_LMU_1 |   | Sender med LMU (forsterker) | | |
|  SA_TI21_Mottaker_1 |  | Mottaker | | |

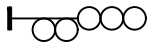
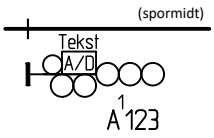
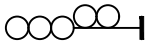
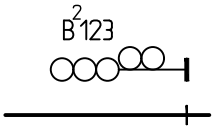
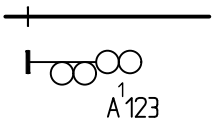
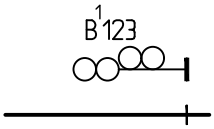
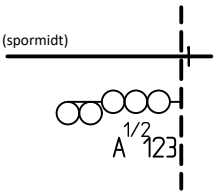
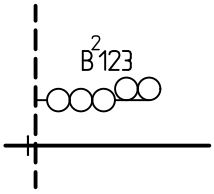
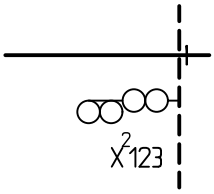
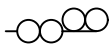
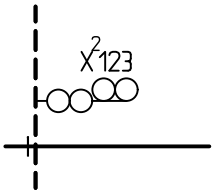
## Lyssignaler, hovedsignal i mast

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_SIG_3lys_mast_1 |   | Hovedsignal med tre lys, plassert i mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Lys stiplet<br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_3lys_mast_2 |   | Hovedsignal med tre lys, plassert i mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Lys stiplet<br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_2lys_mast_1 |   | Hovedsignal med to lys, plassert i mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Lys stiplet<br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_2lys_mast_2 |   | Hovedsignal med to lys, plassert i mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Lys stiplet<br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_Forsig_mast_1 |   | Frittstående forsignal, plassert i mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet | Navn/nr |
|  SA_SIG_Forsig_mast_2 |   | Frittstående forsignal, plassert i mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet | Navn/nr |
|  SA_SIG_Dverg_mast_1 |   | Dvergsignal, plassert i mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Stiplet | Navn/nr |
|  SA_SIG_Dverg_mast_2 |   | Dvergsignal, plassert i mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Stiplet | Navn/nr |

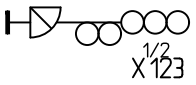
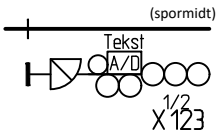
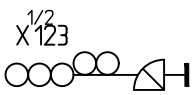
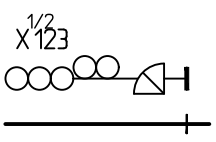
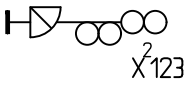
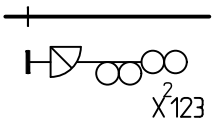
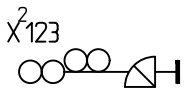
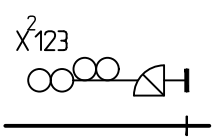
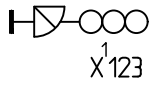
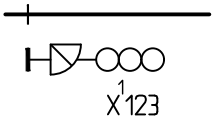
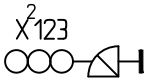
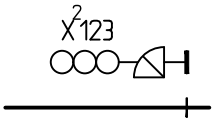
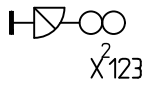
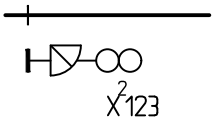
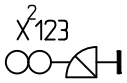
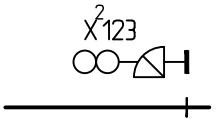
## Lyssignaler, hovedsignal i åk

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_SIG_3lys_aak_1 |   | Hovedsignal med tre lys, for plassering i åk eller i kombinasjon med andre signaler | Valg stipling:<br>- FORVALG (hel strek)<br>- Lys stiplet | Type<br>Grønne lys<br>Litra nr |
|  SA_SIG_3lys_aak_2 |   | Hovedsignal med tre lys, for plassering i åk eller i kombinasjon med andre signaler | Valg stipling:<br>- FORVALG (hel strek)<br>- Lys stiplet | Type<br>Grønne lys<br>Litra nr |
|  SA_SIG_2lys_aak_1 |   | Hovedsignal med to lys, for plassering i åk eller i kombinasjon med andre signaler | Valg stipling:<br>- FORVALG (hel strek)<br>- Lys stiplet | Type<br>Grønne lys<br>Litra nr |
|  SA_SIG_2lys_aak_2 |   | Hovedsignal med to lys, for plassering i åk eller i kombinasjon med andre signaler | Valg stipling:<br>- FORVALG (hel strek)<br>- Lys stiplet | Type<br>Grønne lys<br>Litra nr |
|  SA_SIG_Forsig_aak_1 |   | Forsignal, plassert i åk | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet | Navn/nr |
|  SA_SIG_Forsig_aak_2 |   | Forsignal, plassert i åk | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet | Navn/nr |
|  SA_SIG_Dverg_aak_1 |   | Dvergsignal, plassert i åk | Valg stipling:<br>- FORVALG (hel strek)<br>- Stiplet | Navn/nr |
|  SA_SIG_Dverg_aak_2 |   | Dvergsignal, plassert i åk | Valg stipling:<br>- FORVALG (hel strek)<br>- Stiplet | Navn/nr |

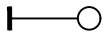
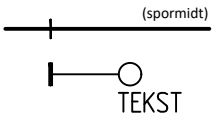
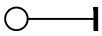
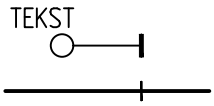
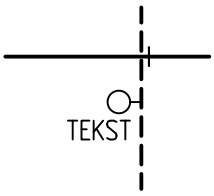
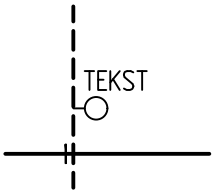
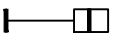
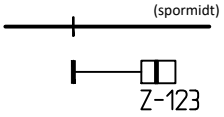
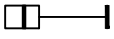
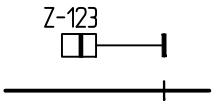
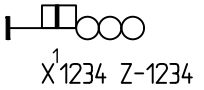
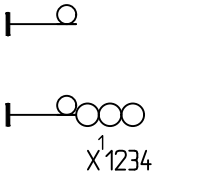
## Lyssignaler, hovedsignal med forsignal

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_SIG_5lys_mast_1 |   | Hovedsignal med fem lys, plassert i mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet<br>- Alle lys stiplet<br>-Hovedsignal stiplet<br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_5lys_mast_2 |   | Hovedsignal med fem lys, plassert i mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet<br>- Alle lys stiplet<br>-Hovedsignal stiplet<br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_4lys_mast_1 |   | Hovedsignal med fire lys, plassert i mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet<br>- Alle lys stiplet<br>-Hovedsignal stiplet<br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_4lys_mast_2 |   | Hovedsignal med fire lys, plassert i mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet<br>- Alle lys stiplet<br>-Hovedsignal stiplet<br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_5lys_aak_1 |   | Hovedsignal med fem lys, plassert i åk | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet<br>- Alle lys stiplet<br>-Hovedsignal stiplet<br>Strekke lengde på mast | Type<br>Grønne lys<br>Litra nr |
|  SA_SIG_5lys_aak_2 |   | Hovedsignal med fem lys, plassert i åk | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet<br>- Alle lys stiplet<br>-Hovedsignal stiplet<br>Strekke lengde på mast | Type<br>Grønne lys<br>Litra nr |
|  SA_SIG_4lys_aak_1 |   | Hovedsignal med fire lys, plassert i åk | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet<br>- Alle lys stiplet<br>-Hovedsignal stiplet<br>Strekke lengde på mast | Type<br>Grønne lys<br>Litra nr |
|  SA_SIG_4lys_aak_2 |   | Hovedsignal med fire lys, plassert i åk | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet<br>- Alle lys stiplet<br>-Hovedsignal stiplet<br>Strekke lengde på mast | Type<br>Grønne lys<br>Litra nr |

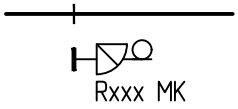
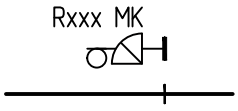
## Lyssignaler, Hovedsignal og dverg i samme mast

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_SIG_5lys_Dverg_mast_1 |  | Dverg og hovedsignal med fem lys, plassert på samme mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet<br>- Alle lys stiplet<br>-Hovedsignal stiplet<br><br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_5lys_Dverg_mast_2 |  | Dverg og hovedsignal med fem lys, plassert på samme mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet<br>- Alle lys stiplet<br>-Hovedsignal stiplet<br><br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_4lys_Dverg_mast_1 |  | Dverg og hovedsignal med fire lys, plassert på samme mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet<br>- Alle lys stiplet<br>-Hovedsignal stiplet<br><br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_4lys_Dverg_mast_2 |  | Dverg og hovedsignal med fire lys, plassert på samme mast | Valg stipling:<br>- FORVALG (hel strek)<br>- Forsignal stiplet<br>- Alle lys stiplet<br>-Hovedsignal stiplet<br><br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_3lys_Dverg_mast_1 |  | Dverg og hovedsignal med tre lys, plassert på samme mast | Valg stipling:<br>- FORVALG (hel strek)<br>- 3 lys stiplet<br>- Alle lys stiplet<br><br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_3lys_Dverg_mast_2 |  | Dverg og hovedsignal med tre, lys plassert på samme mast | Valg stipling:<br>- FORVALG (hel strek)<br>- 3 lys stiplet<br>- Alle lys stiplet<br><br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_2lys_Dverg_mast_1 |  | Dverg og hovedsignal med to lys, plassert på samme mast | Valg stipling:<br>- FORVALG (hel strek)<br>-2 lys stiplet<br>- Alle lys stiplet<br><br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |
|  SA_SIG_2lys_Dverg_mast_2 |  | Dverg og hovedsignal med to lys, plassert på samme mast | Valg stipling:<br>- FORVALG (hel strek)<br>- 2 lys stiplet<br>- Alle lys stiplet<br><br>Strekke lengde på mast | Type<br>Antall grønne lys<br>Litra nr |

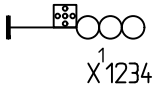
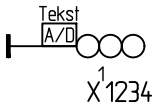
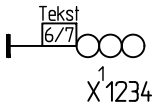
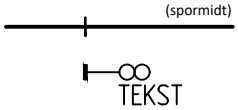
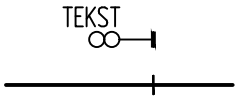
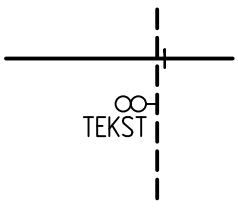
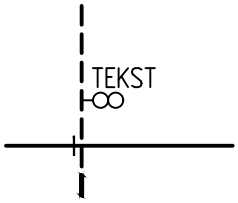
## Lyssignaler, Repetersignal 1 lys

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_SIG_1lys_mast_1 |   | Repetersignal 1-lys, plassert i mast | Flytte tekst til Originalplassering (Reset block) | Navn/nr |
|  SA_SIG_1lys_mast_2 |   | Repetersignal 1-lys, plassert i mast | Flytte tekst til Originalplassering (Reset block) | Navn/nr |
|  SA_SIG_1lys_aak_1 |   | Repetersignal 1-lys, plassert i åk | Flytte tekst til Originalplassering (Reset block) | Navn/nr |
|  SA_SIG_1lys_aak_2 |   | Repetersignal 1-lys, plassert i åk | Flytte tekst til Originalplassering (Reset block) | Navn/nr |
|  SA_SIG_H-SKIFTE_mast_1 |   | Høyt skiftesignal, plassert i mast | Flytte tekst til Originalplassering (Reset block) | Navn/nr |
|  SA_SIG_H-SKIFTE_mast_2 |   | Høyt skiftesignal, plassert i mast | Flytte tekst til Originalplassering (Reset block) | Navn/nr |
|  SA_SIG_H-SKIFTE |   | Høyt skiftesignal, For plassering sammen med andre signaler | | |
|  SA_SIG_MKL |   | Middelkontrollampe, For plassering sammen med andre signaler | | |

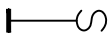
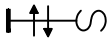
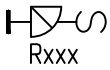
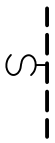
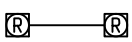
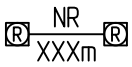
## Lyssignaler, andre signaler

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Pilskilt |   | Pilskilt<br>Viser hvilket spor signalet gjelder for. (Signal 102)<br><br>Eks.: Med dvergsignal | | |
|  SA_Mast_H-L |   | Indikator<br>Høy eller lav stolpe eller mast<br><br>Eks.: Med høy dvergsignal | | |
| | | | | |
|  SA_SIG_Dverg_kombi_1 |   | Dvergsignal,<br>kombinert med flere signal<br><br>Eks.: Middelkontrollampe | Valg stipling:<br>- FORVALG (hel strek)<br>- Stiplet | Navn/nr |
|  SA_SIG_Dverg_kombi_2 |   | Dvergsignal,<br>kombinert med flere signal | Valg stipling:<br>- FORVALG (hel strek)<br>- Stiplet | Navn/nr |

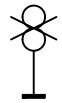
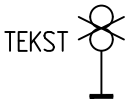
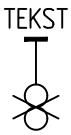
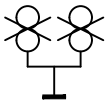
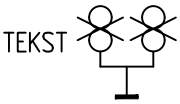
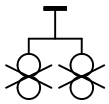
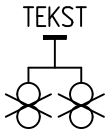
## Lyssignaler, andre signaler

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
| <br>SA_SIG_Forsiktig_k |  | Lyssignal forsiktig kjøring, for plassering sammen med andre signaler | | |
| <br>SA_SIG_Tom |  | Firkantskilt for Linje signal<br>Til angitt linje eller sporområde<br>(Signal 35B)<br>Eks.: Asker-/Drammenbanen<br><br>Avvikende hastighet<br>Hastigheten over første avvikende sporveksel eller sporvekselgruppe kan økes eller må reduseres til det som er angitt på signalet.<br>Stort 5-tall betyr 50 km/t, stort 6-tall 60 km/t osv.<br>(Signal 68E) | | TEKST<br>TOM |
| |  | | | |
| <br>SA_SIG_Mast | | Mast for signaler | Strekke lengde mast<br>Valg:<br>-9<br>-11<br>-13<br>-15 | |
| <br>SA_SIG_Togspor_mast_1 |  | Togsporsignal, plassert i mast | Valg flytte tekst:<br>- Tekst under<br>- Tekst over<br>- Tekst til høyre | Navn/nr |
| <br>SA_SIG_Togspor_mast_2 |  | Togsporsignal plassert i mast | Valg flytte tekst:<br>- Tekst over<br>- Tekst under<br>- Tekst til venstre | Navn/nr |
| <br>SA_SIG_Togspor_aak_1 |  | Togsporsignal plassert i åk | Valg flytte tekst:<br>- Tekst under<br>- Tekst over<br>- Tekst til venstre | Navn/nr |
| <br>SA_SIG_Togspor_aak_2 |  | Togsporsignal plassert i åk | Valg flytte tekst:<br>- Tekst over<br>- Tekst under<br>- Tekst til høyre | Navn/nr |

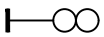
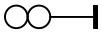
## Lyssignaler, togsporsignal

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_SIG_Brosignal_1 |   | Brosignal, forsignal for brosignal | | TEKST1<br>TEKST2<br>TEKST3<br>TEKST4 |
|  SA_SIG_Brosignal_2 |   | Brosignal, forsignal for brosignal | | TEKST1<br>TEKST2<br>TEKST3<br>TEKST4 |
|  SA_SIG_Brosignal_3 |   | Enkelt innkjørsignalapparat plassert på vegg<br><br>(Signal ved tunnelport)<br>Togsporsignal | | TEKST1<br>TEKST2<br>TEKST3<br>TEKST4 |
|  SA_TGV_SLUTT_Stolpe |  | Togvei slutt<br>(Signal 66)<br>Plassert på egen stolpe | | |
|  SA_TGV_SLUTT |   | Togvei slutt<br>For plassering sammen med andre signaler<br><br>Eks.: med dvergsignal | | |
|  SA_TGV_SLUTT_aak |  | Togvei slutt<br>For plassering i åk | | |
|  SA_RAS_Skilt |  | Rasvarslingskilt<br>Signalet står i avhengighet til rasvarslingsanlegg.<br>(Signal 73) | | |
|  SIG-RAS Seksjon |   | Rasvarslings seksjon | Strekke (fra midtpunkt) | NR<br>Lengde |

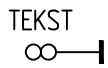
## Veisikringsanlegg, Kabelplan

| Grafikk, blokk navn | | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_VSA_Vei_1 |   | Signal mot vei, enkelt | | Tekst 1<br>Tekst 2<br>Tekst 3 |
|  SA_VSA_Vei_2 |   | Signal mot vei, enkelt | | Tekst 1<br>Tekst 2<br>Tekst 3 |
|  SA_VSA_Vei_3 |   | Signal mot vei, dobbelt | | Tekst 1<br>Tekst 2<br>Tekst 3 |
|  SA_VSA_Vei_4 |   | Signal mot vei, dobbelt | | Tekst 1<br>Tekst 2<br>Tekst 3 |

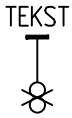
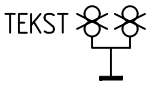
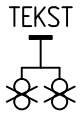
## Veisikringsanlegg, Kabelplan

| Grafikk, blokk navn | | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_VSA_PLO_1 |   | Planovergangssignal | | Tekst 1<br>Tekst 2<br>Tekst 3 |
|  SA_VSA_PLO_2 |   | Planovergangssignal | | Tekst 1<br>Tekst 2<br>Tekst 3 |

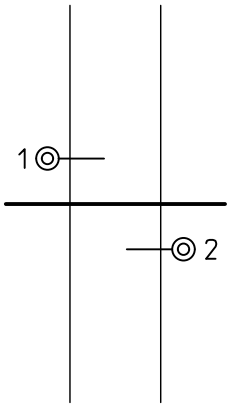
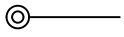
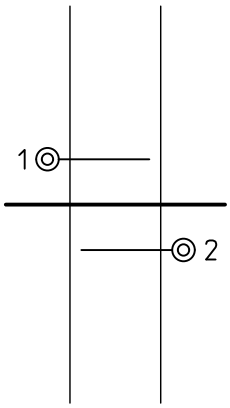
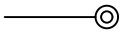
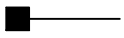
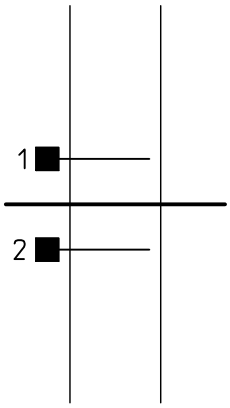
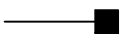
## Veisikringsanlegg, andre tegninger

| Grafikk, blokk navn | | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_VSA_PLO_3 |   | Planovergangssignal | | Tekst 1<br>Tekst 2<br>Tekst 3 |
|  SA_VSA_PLO_4 |   | Planovergangssignal | | Tekst 1<br>Tekst 2<br>Tekst 3 |

## Veisikringsanlegg, andre tegninger

| Grafikk, blokk navn | | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_VSA_Vei_5 |   | Signal mot vei, enkelt | | Tekst 1<br>Tekst 2<br>Tekst 3 |
|  SA_VSA_Vei_6 |   | Signal mot vei, enkelt | | Tekst 1<br>Tekst 2<br>Tekst 3 |
|  SA_VSA_Vei_7 |   | Signal mot vei, dobbelt | | Tekst 1<br>Tekst 2<br>Tekst 3 |
|  SA_VSA_Vei_8 |   | Signal mot vei, dobbelt | | Tekst 1<br>Tekst 2<br>Tekst 3 |

## Veibommer

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_VBO_Drivmaskin |   | Drivmaskin veibom | | Tekst 1<br>Tekst 2 |
|  SA_VBO_bom_kort_1 |   | Kort veibom med drivmaskin | | Tekst |
|  SA_VBO_bom_kort_2 | | Kort veibom med drivmaskin | | Tekst |
|  SA_VBO_bom_1 |   | Veibom med drivmaskin | | Tekst |
|  SA_VBO_bom_2 | | Veibom med drivmaskin | | Tekst |
|  SA_VBO_mek_1 |   | Mekanisk veibom | | Tekst |
|  SA_VBO_mek_2 | | Mekanisk veibom | | Tekst |

## Veisikringsanlegg, BUES2000

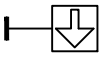
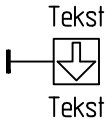
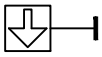
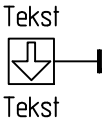
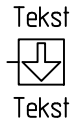
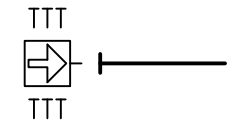
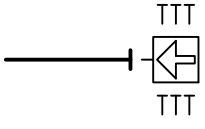
| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
| <br>SA_VSA-BU_Sloyfe | Tekst<br><br>Tekst | Induktiv sløyfe<br>BUES2000 | | Tekst over<br>Tekst under |
| <br>SA_VSA-BU_Koblingsboks | TEKST1<br>TEKST2  TEKST3<br>TEKST4 | Koblingsboks "SOPP"<br>BUES2000 | Flytte tekst til Originalplassering (Reset block) | Tekst over<br>Tekst venstre<br>Tekst høyre<br>Tekst under |
| <br>SA_VSA-BU Inn-Out | <br>- Høy<br><br><br>-Lav | Inngang/Utgang<br>BUES2000<br><br>Verdi: (I 01) til (I 25)<br>Verdi: (O 01) til (0 12) | Valg (pil):<br>-Lav (ned)<br>-Høy (opp) | Inn/out |

# 9. ERTMS Skilt/signaler

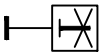
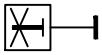
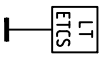
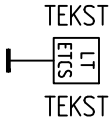
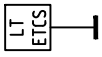
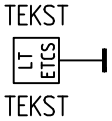
FAG: SA

Ark nr.: 9.1

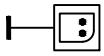
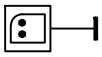
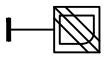
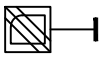
## ERTMS Skilt

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
| <br>SA_Signal_E35 |  | Signal E35<br>Stoppskilt<br>(Marker board) | Valg:<br>-Ned<br>-Opp<br>-Ned stiplet<br>-Opp stiplet | Tekst over<br>Tekst under |
| <br>SA_Signal_E35_stolpe 1 |  | Signal E35<br>Stoppskilt<br>(Marker board)<br>Plassert på stolpe | Valg:<br>-Ned<br>-Opp<br>-Ned stiplet<br>-Opp stiplet | Tekst over<br>Tekst under |
| <br>SA_Signal_E35_stolpe_2 |  | Signal E35<br>Stoppskilt<br>(Marker board)<br>Plassert på stolpe | Valg:<br>-Ned<br>-Opp<br>-Ned stiplet<br>-Opp stiplet | Tekst over<br>Tekst under |
| <br>SA_Signal_E35_1 |  | Signal E35<br>Stoppskilt<br>(Marker board)<br>Plassert i åk | Valg:<br>-Ned<br>-Opp<br>-Ned stiplet<br>-Opp stiplet | Tekst over<br>Tekst under |
| <br>SA_Signal_E35_2 |  | Signal E35<br>Stoppskilt<br>(Marker board)<br>Plassert i åk | Valg:<br>-Ned<br>-Opp<br>-Ned stiplet<br>-Opp stiplet | Tekst over<br>Tekst under |
| <br>SA_Signal_E35_butt | <br> | Signal E35<br>Stoppskilt<br>(Marker board)<br>Skilt for buttspor<br><br>-Høyre<br><br>-Venstre | Valg:<br>-Høyre<br>-Venstre<br>-Høyre stiplet<br>-Venstre stiplet | Tekst over<br>Tekst under |

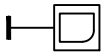
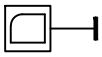
## ERTMS Skilt

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Signal_E36_stolpe_1 | | Signal E36<br>Veisikringsanlegg<br>Planovergangskilt<br>(Level crossing board)<br>Plassert på stolpe<br>"W skilt" Skilt for veisikringsanlegg. | | Tekst over<br>Tekst under |
|  SA_Signal_E36_stolpe_2 | | Signal E36<br>Veisikringsanlegg<br>Planovergangskilt<br>(Level crossing board)<br>Plassert på stolpe<br>"W skilt" Skilt for veisikringsanlegg. | | Tekst over<br>Tekst under |
|  SA_Signal_E36_1 | | Signal E36<br>Veisikringsanlegg<br>Planovergangskilt<br>(Level crossing board)<br><br>"W skilt" Skilt for veisikringsanlegg. | | Tekst over<br>Tekst under |
|  SA_Signal_E36_2 | | Signal E36<br>Veisikringsanlegg<br>Planovergangskilt<br>(Level crossing board)<br><br>"W skilt" Skilt for veisikringsanlegg. | | Tekst over<br>Tekst under |
| | | | | |
|  SA_Signal_E37_stolpe_1 |   | Signal E37<br>Systemovergang<br>Plassert på stolpe | | Tekst over<br>Tekst under |
|  SA_Signal_E37_stolpe_2 |   | Signal E37<br>Systemovergang<br>Plassert på stolpe | | Tekst over<br>Tekst under |
|  SA_Signal_E37_1 |   | Signal E37<br>Systemovergang | | Tekst over<br>Tekst under |
|  SA_Signal_E37_2 |   | Signal E37<br>Systemovergang | | Tekst over<br>Tekst under |

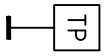
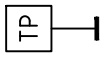
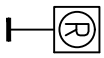
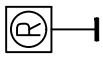
ERTMS Skilt

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Signal_106_stolpe_1 | | Signal 106<br>Stop for skifting<br>(Stopp for shunting)<br><br>Plassert på stolpe | | Tekst over<br>Tekst under |
|  SA_Signal_106_stolpe_2 | | Signal 106<br>Stop for skifting<br>(Stopp for shunting)<br><br>Plassert på stolpe | | Tekst over<br>Tekst under |
|  SA_Signal_106_1 | | Signal 106<br>Stop for skifting<br>(Stopp for shunting) | | Tekst over<br>Tekst under |
|  SA_Signal_106_2 | | Signal 106<br>Stop for skifting<br>(Stopp for shunting) | | Tekst over<br>Tekst under |
| | | | | |
|  SA_Signal_107_stolpe_1 | | Signal 107<br>Overgang til usikret område<br>(Unsecured area with hand operated points)<br><br>Plassert på stolpe | | Tekst over<br>Tekst under |
|  SA_Signal_107_stolpe_2 | | Signal 107<br>Overgang til usikret område<br>(Unsecured area with hand operated points)<br><br>Plassert på stolpe | | Tekst over<br>Tekst under |
|  SA_Signal_107_1 | | Signal 107<br>Overgang til usikret område<br>(Unsecured area with hand operated points) | | Tekst over<br>Tekst under |
|  SA_Signal_107_2 | | Signal 107<br>Overgang til usikret område<br>(Unsecured area with hand operated points) | | Tekst over<br>Tekst under |

## ERTMS Skilt

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Signal_108_stolpe_1 | | Signal 108<br>Overgang til sikret område<br>(Interlocked area)<br><br>Plassert på stolpe | | Tekst over<br>Tekst under |
|  SA_Signal_108_stolpe_2 | | Signal 108<br>Overgang til sikret område<br>(Interlocked area)<br><br>Plassert på stolpe | | Tekst over<br>Tekst under |
|  SA_Signal_108_1 | | Signal 108<br>Overgang til sikret område<br>(Interlocked area) | | Tekst over<br>Tekst under |
|  SA_Signal_108_2 | | Signal 108<br>Overgang til sikret område<br>(Interlocked area) | | Tekst over<br>Tekst under |

ERTMS Skilt

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Skilt_Tunnelport_1 | | Skilt tunnelport<br>Plassert på stolpe | | Tekst over<br>Tekst under |
|  SA_Skilt_Tunnelport_2 | | Skilt tunnelport<br>Plassert på stolpe | | Tekst over<br>Tekst under |
|  SA_Skilt_Tunnelport_3 | | Skilt tunnelport | | Tekst over<br>Tekst under |
|  SA_Skilt_Tunnelport_4 | | Skilt tunnelport | | Tekst over<br>Tekst under |
| | | | | |
|  SA_Signal_73_stolpe_1 | | Signal 73<br>Rasvarslingskilt<br>(Avalanche warning signal)<br>Plassert på stolpe | | Tekst over<br>Tekst under |
|  SA_Signal_73_stolpe_2 | | Signal 73<br>Rasvarslingskilt<br>(Avalanche warning signal)<br>Plassert på stolpe | | Tekst over<br>Tekst under |
|  SA_Signal_73_1 | | Signal 73<br>Rasvarslingskilt<br>(Avalanche warning signal) | | Tekst over<br>Tekst under |
|  SA_Signal_73_2 | | Signal 73<br>Rasvarslingskilt<br>(Avalanche warning signal) | | Tekst over<br>Tekst under |

ERTMS Skilt

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Skilt_Balisegr dobbel | | Dobbel balisegruppe | | Tekst over<br>Tekst under |
|  SA_Skilt_Balisegr enkel | | Enkel balisegruppe | | Tekst over<br>Tekst under |

# 10. Andre fag

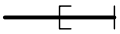
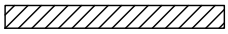
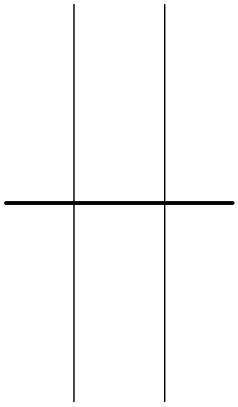
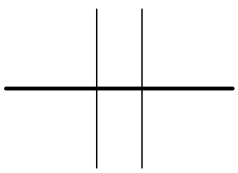
FAG: (SA)

Ark nr.: 10.1

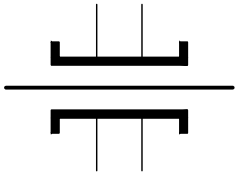
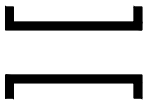
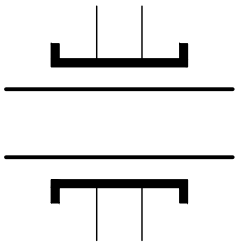
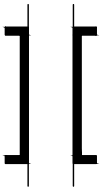
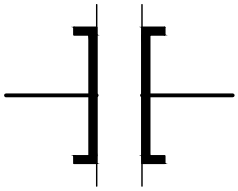
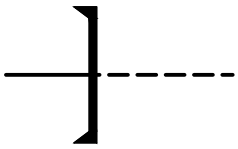
## Kontaktlednings anlegg

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_KL-bryter |   | EH KL bryter (Z bryter) | | TEKST |
|  SA_KL_Seksjon | | Seksjonsfelt i kontaktledning | | |
|  SA_KL_Seksjonsisolator | | Seksjonsisolator i kontaktledning | | |

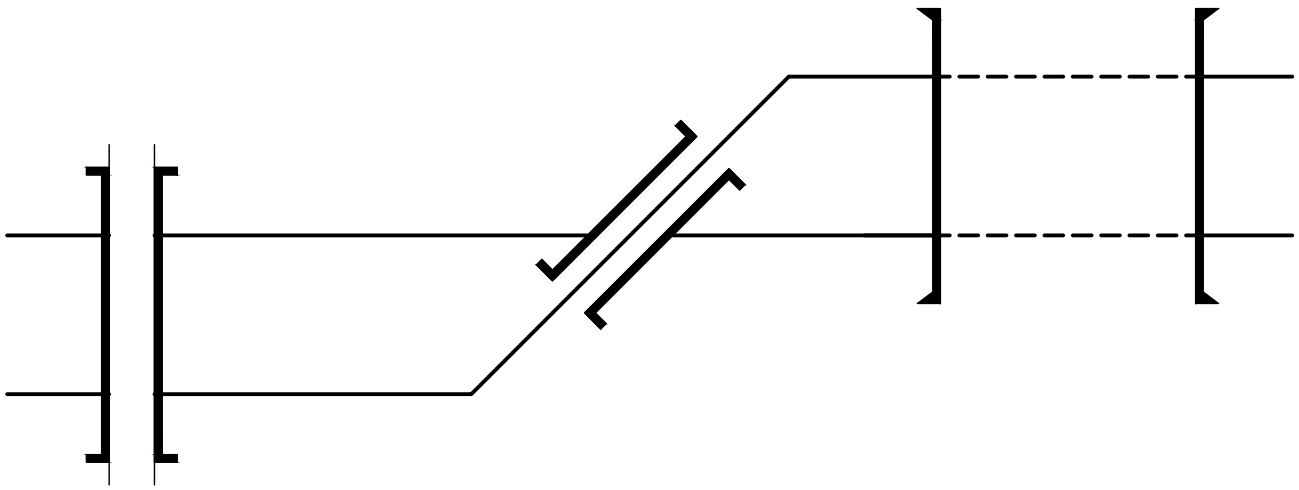
## Spor og overbyggning

| | | | | |
|---|---|---|---|---|
|  KO_Buttspor |  | Buttspor | | |
|  KO_Sporstopper |  | Sporstopper fast | | |
| |  | Glidene sporstopper | | |
|  SA_Plattform | | Plattform (Blokk)<br>Skrå skravur | Lengde<br>Bredde (3+3) | |
| SA_PLO_1 |  | Planovergang | | |
| SA_PLO_2 |  | | | |

## Underbygning. Bro og tunnel

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. Norm: TRV | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  SA_Bro_enside |  | Veiundergang, bro | Lengde | |
|  SA_Bro_dynamisk |  | Bro, dynamisk bredde og lengde | Lengde<br>Bredde | |
|  SA_Bro_vei |  | Veiovergang | Lengde | |
|  SA_Tunnelmunning |  | Tunnel | Bredde | |

Eksempel



# 11. Lag og linjetyper, tekst

FAG: SA

Ark nr.: 11.1

## Lag og linjetyper

| Grafikk | Navn, beskrivelse | Lagnavn | Linetype | mm | Farge |
|---|---|---|---|---|---|
| | Trase for kabelgrøft | SIG-KABELKANAL | HIDDEN-Signal | 0.18 | cyan |
| | Spor (en-linje) | SIG-SPOR enlinje | Continuous | 0.50 | blue |
| | Isolert skinne | SIG-SPOR I | Continuous | 0.70 | red |
| | Uisolert skinne | SIG-SPOR U | Continuous | 0.25 | yellow |
| | Underbyggning<br>Plattformer, bruer, tunneler, bygninger, skap, osv. | SIG-Underbygg | Continuous | 0.18 | cyan |
| | (ikke definert) | SIG-(hvit) | Continuous | 0.35 | white |
| | Togspor | SIG-Togspor | Continuous | 0.50 | blue |
| | Komponenter, øvrige objekter | SIG-Komponenter | Continuous | 0.25 | yellow |
| | Spor, alle spor som ikke er togspor | SIG-Spor | Continuous | 0.25 | yellow |
| | Sporveksler (alle typer),<br>middel, avsporingstunger. | SIG-Sporveksler | Continuous | 0.25 | yellow |
| | Signaler, alle signaler,<br>fiktiv sluttpunkt | SIG-Signaler | Continuous | 0.25 | yellow |
| | Sporavsnitt | SIG-Sporavsnitt | Continuous | 0.25 | yellow |
| | Dimensjoner/målsetting streker og piler | SIG-Dimensjoner | Continuous | 0.25 | yellow |
| | Lokalområder | SIG-Lokalomraader | CENTER | 0.35 | white |
| | Arbeidsområde | SIG-Arbeidsomr | HIDDEN-Signal | 0.25 | yellow |
| | Gjerde/rasvarslingsgjerde | SIG-Gjerde | GJERDE1 | 0.25 | yellow |
| | | | | | |
| EH_Returledning | Returledning for Kontaktledningsanlegg<br>(Brukes ikke av Signal) | | | | |
| | | | | | |
| | Stiplet | SA_Hidden signal | HIDDEN-Signal | 0.25 | yellow |
| | Stiplet (åk) | SIG-STIPLET | HIDDEN-Signal | 0.50 | blue |
| | | | | | |
| | Ramme og tittelfelt | SIG-Ramme tittel | Continuous | 0.50 | blue |
| | | | | | |

# 11. Lag og linjetyper, tekst

FAG: SA

Ark nr.: 11.2

FRITEKST

| Grafikk tekst | Navn, beskrivelse | Lagnavn | Høyde mm | Fonttype | mm | Farge |
|---|---|---|---|---|---|---|
| Tekst 1.8mm | Tekst 1.8mm<br>Arbeidsområde tekst, informasjon tilhørende posisjonangivelse, lokalområde tekst | SIG-Tekst-18 | 1.80 | ISOCP | 0.18 | cyan |
| Tekst 2.5mm | Tekst 2.5mm<br>Tekst tilhørende objekter (veksler, skilt, VA, osv) | SIG-Tekst-25 | 2.50 | | 0.25 | yellow |
| Tekst 3.5mm | Tekst 3.5mm<br>Henvisning til nabostasjon, henvisning til blokkposter | SIG-Tekst-35 | 3.50 | | 0.35 | white/black |
| 5.0mm | Tekst 5.0mm<br>(ingen beskrivelse) | SIG-Tekst-50 | 5.00 | | 0.50 | blue |
| 7.0mm | Tekst 7.0mm<br>Stasjonsnavn, stasjonsforkortelse | SIG-Tekst-70 | 7.00 | | 0.70 | red |

Attributt tekst

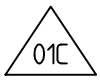
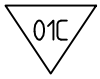
| Grafikk tekst | Navn, beskrivelse | Lagnavn | Høyde mm | | mm | Farge |
|---|---|---|---|---|---|---|
| Tekst 1.8mm | Tekst 1.8mm | SIG_ATT_Tekst18 | 1.80 | | 0.18 | cyan |
| Tekst 2.5mm | Tekst 2.5mm | SIG_ATT_Tekst25 | 2.50 | | 0.25 | yellow |
| Tekst 3.5mm | Tekst 3.5mm | SIG_ATT_Tekst35 | 3.50 | | 0.35 | white/black |

# 12. For prosjekt

FAG: SA

Ark nr.: 12.1

## For prosjekt

| Grafikk, blokk navn | Eksempel | Navn, beskrivelse. | Dynamiske funksjoner | Attributter |
|---|---|---|---|---|
|  Parsellgrense | | Parsellgrense | | |
|  Fasemerke01 | | Fasemerke | | |
|  Fasemerke02 | | Fasemerke | | |