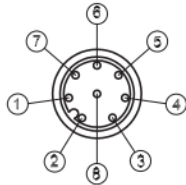


Application Note
Substitute
Model SD2Rxx-yyyyE
Series Solid 2 Extended

General Information

- Replacing an Solid 2 E light curtain with following wiring:

Receiver Extended



1 = white
2 = brown
3 = green
4 = yellow
5 = grey
6 = pink
7 = blue
8 = black

- Replacement

- Either MLC500Txx-yyyy + MLC520Rxx-yyyy or MLC300Txx-yyyy + MLC320Rxx-yyyy
- Wiring need to be changed on receiver side...
- Transmitter function of PIN4 is changed from test input to range selector input
- Eventually the mounting holders need to be changed in addition, please have a look to

the next page

Note:

xx = resolution; yyy = protective field height



Substitute model SD2* to MLC*

Mechanical adaption



OLD



NEW



BT-360-Set



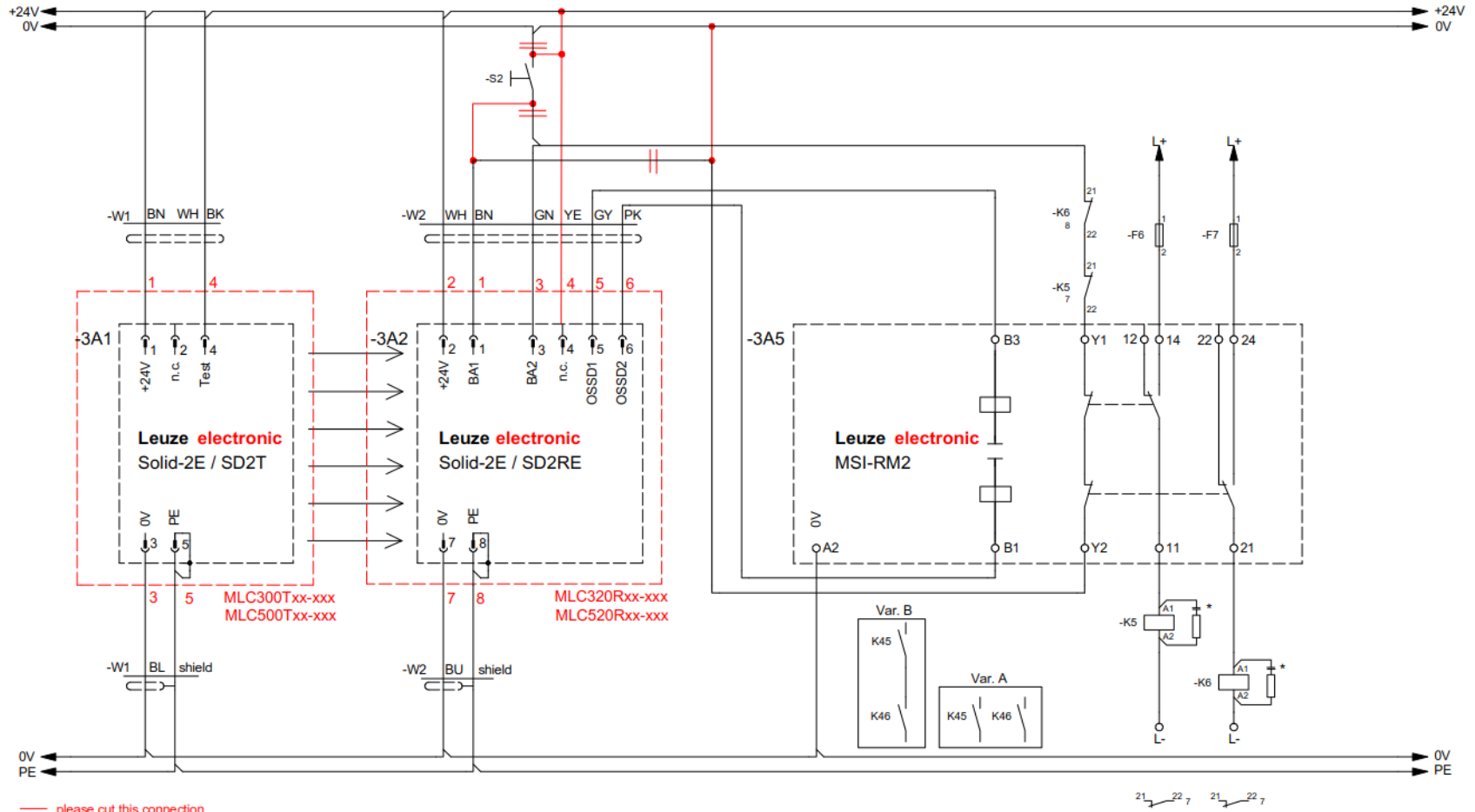
BT-2HF

Note:

The hole pattern of the BT-360-Set is identical with the hole pattern of the BT-2HF.

Substitute model SD2* to MLC*

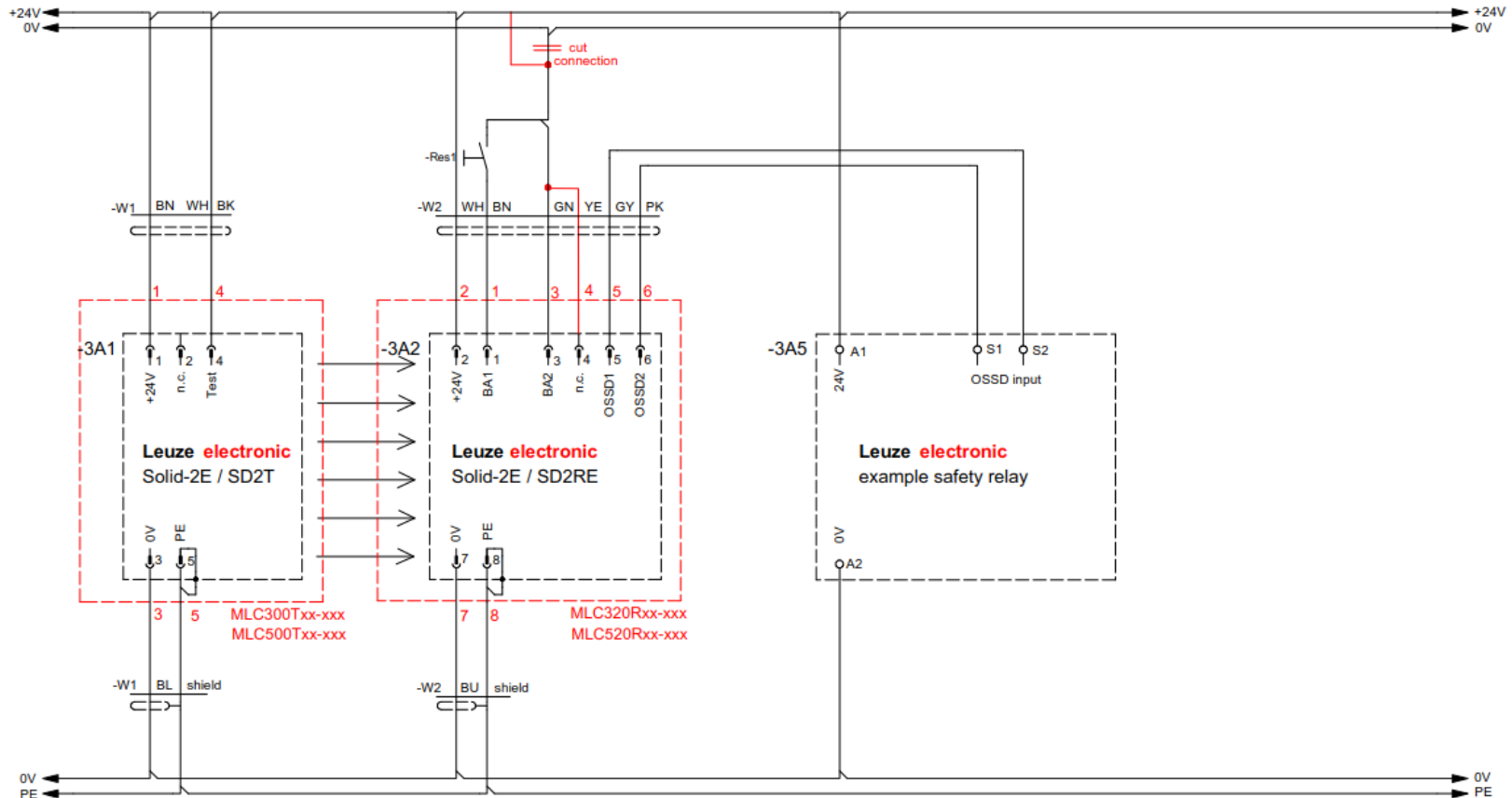
Connection with external device monitoring (+EDM) and reset – function (+RES):



*) Suitable spark quenching element necessary
rewiring plan MLC520 & 320 instead of Solid-2E with safety relay MSI-RM2
Observe the operating instructions of the components!

Substitute model SD2* to MLC*

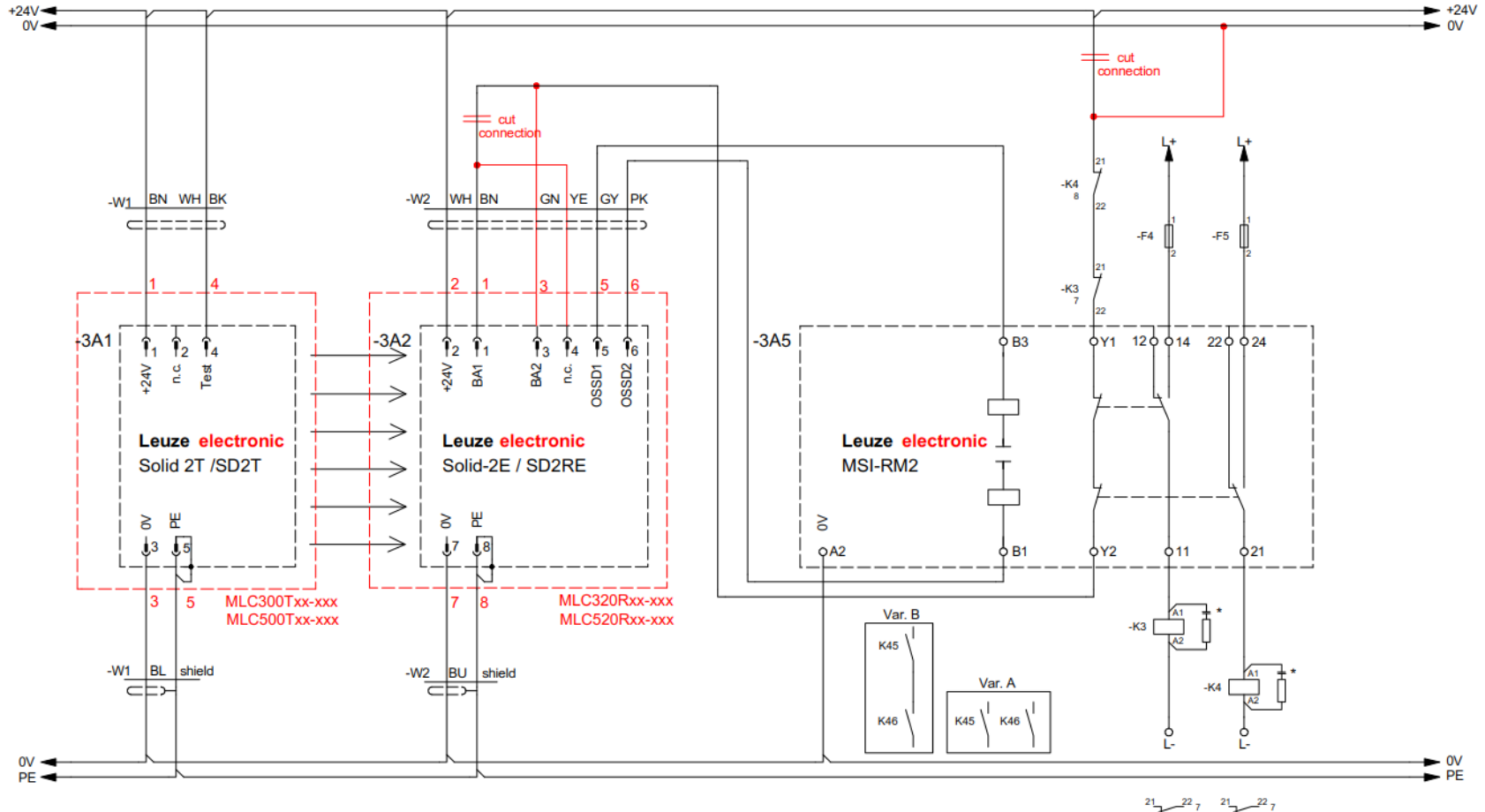
Connection with reset – function (+RES) and without external device monitoring (-EDM):



*) Suitable spark quenching element necessary
rewiring plan MLC520 & 320 instead of Solid-2E with safety relay
Observe the operating instructions of the components!

Substitute model SD2* to MLC*

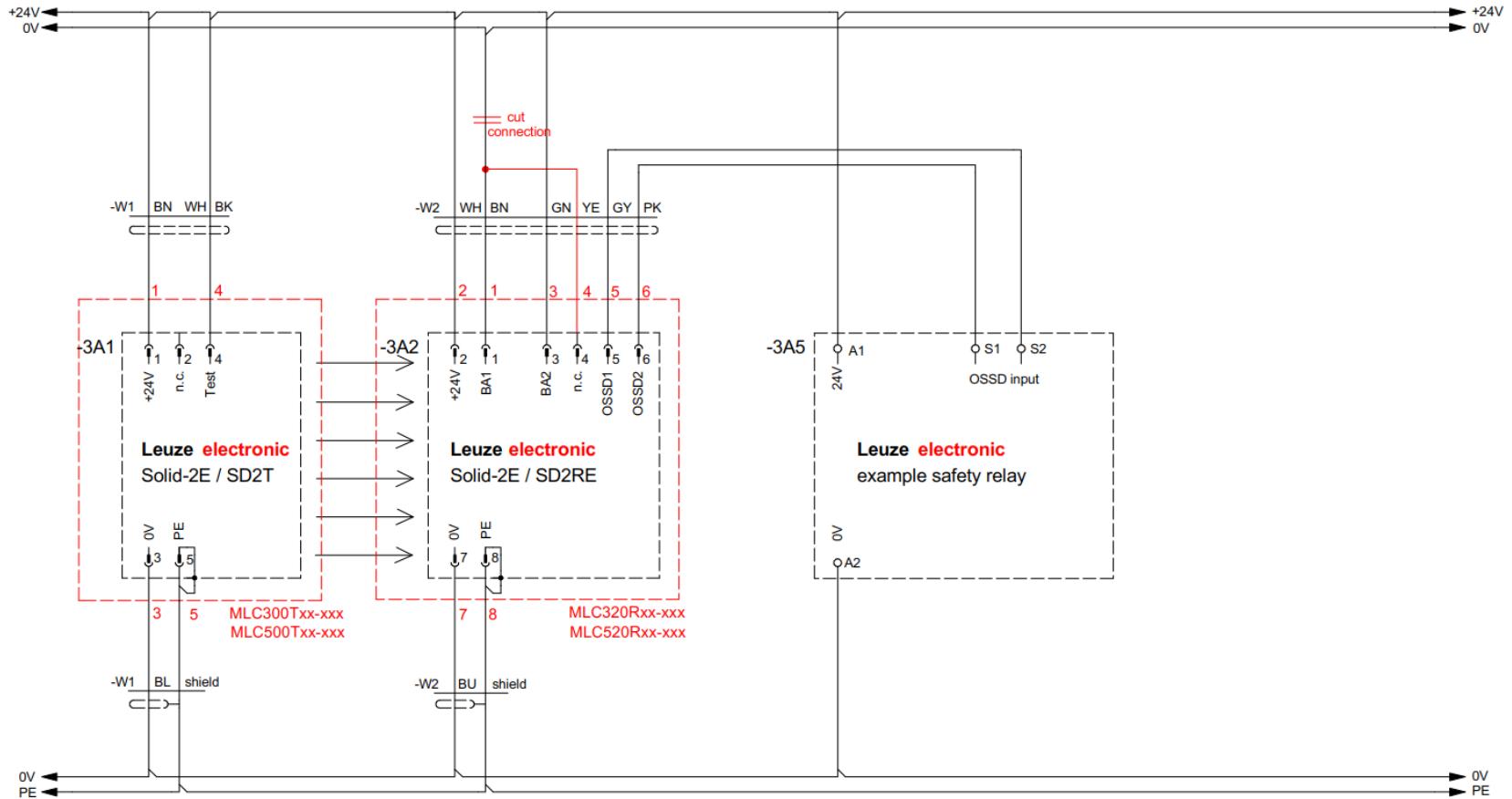
Connection with external device monitoring (+EDM) and without reset – function (-RES):



*) Suitable spark quenching element necessary
rewiring plan MLC520 & 320 instead of Solid-2E with safety relay MSI-RM2
Observe the operating instructions of the components!

Substitute model SD2* to MLC*

Connection without external device monitoring (-EDM) and without reset – function (-RES):



*) Suitable spark quenching element necessary
rewiring plan MLC520 & 320 instead of Solid-2E with safety relay
Observe the operating instructions of the components!

Attention

Note:

Please pay attention to the following points:

- Only the MLC320 plus MLC300 or MLC520 plus MLC500 transmitter may be replaced together
- There is no need to change the cables. The requirements for both units to the cables are equal.
- The OSSD – pulse pattern of the units are different. The MLC320 and 520 is compatible with most of the safety inputs.
- For an exchange of a Solid2 in a existing machine, a MLC320 system is sufficient. The units are technical equal. The reduced performance level from PL-d to PL-c stems from the change of the standard EN / IEC 61496-1. This change is not a major change (EU 2009/104/EG)
- different response time / MLC – series provide usually a faster response
- If the Solid was connected to a safety relay with test loop (If Pin 4 of transmitter is NOT connected with 24V) the replacement need to be changed to a MLC502 transmitter and a MLC510 receiver.

Any questions!?



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E-Mail: service.protect@leuze.com

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