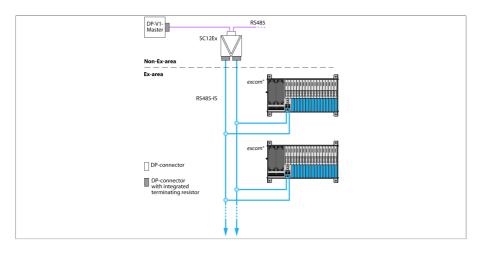


excom I/O System PROFIBUS-DP – Segment Coupler (RS485-IS) SC12EX





The PROFIBUS-DP segment coupler SC12Ex from TURCK has been developed for intrinsically safe PROFIBUS connection.

Equipped with one RS485 and two RS485-IS interfaces, this coupler is suited for many Ex-area applications. The RS485-IS interface is entirely realized according to the PNO PROFIBUS guideline. The coupler can thus supply both lines of the TURCK Ex-Remote-I/O system *excom*® simultaneously (line redundancy). Just one device is required for Ex isolation and line redundancy.

The segment coupler SC12Ex is IP20-rated and is mounted in non-Ex areas. The coupler can be supplied redundantly. Both power supply inputs are decoupled by diodes. The load distribution depends on the level of operating voltage. Operating voltage 18...32 VDC.

In switch position 0, the coupler identifies the baud rate automatically. For this, the start-delimiter of the PROFIBUS telegrams is evaluated. Three consecutive and valid start-delimiters have to be received before identification locks in.

All received telegrams are checked for plausibility by means of start-delimiter sequences. Baud rate detection is started after reset. If telegrams are not received within 1.7 seconds, baud rate search is activated. Alternatively, the baud rate used can be set via rotary switch.

In order not to limit the number of nodes and cable length of a PROFIBUS-DP segment, amplitude and phase are reproduced in the coupler. The user can choose between capacitive and direct earthing.

- Device for intrinsically safe separation of RS485 and RS485-IS
- Connection of max. 62 bus nodes (31 in redundant mode)
- Redundant power supply
- Automatic baud rate detection



SC12EX
6884047
24 VDC
1832 VDC
200 mA
Complete galvanic isolation acc. to EN 60079-11
2
9.6 kbps up to 1.5 Mbps
PTB 03 ATEX 2115
2 × green
3 × yellow/red
1 × yellow
Anodized aluminium
FR4, gray / blue
snap-fit on DIN rail (DIN 60715)
IP20
-20+70 °C
≤ 93 % at 40 °C acc. to IEC 60068-2-78
Acc. to IEC 60068-2-6
Acc. to IEC 60068-2-27
Acc. to EN 61326-1
Acc. to Namur NE21
106 years acc. to SN 29500 (Ed. 99) 40 °C
142 x 105.5 x 31 mm
ATEX
cFMus
cFM
CCC
INMETRO
KOSHA
EAC Ex
DNV GL
BV
LR
KR
KCC
CE



