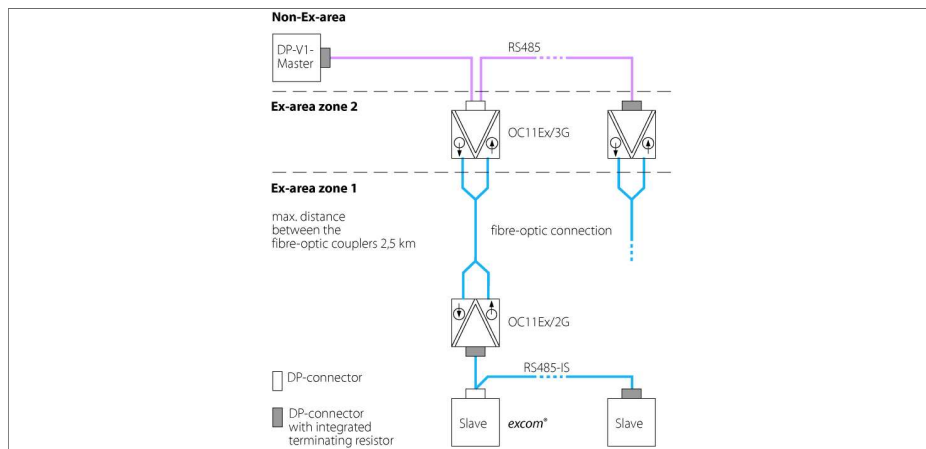




The optocoupler OC11Ex/3G converts the PROFIBUS-DP signals of copper cables for transmission to plastic fibers. Bus signals are thus transmitted over a long range potential and interference-free from the safe to the Ex-area.

The optocoupler is installed in the safe area or in zone 2. The optocoupler OC11Ex/3G receives the PROFIBUS-DP signals at the standard interface RS485 and transmits them via the fiber-optic interface to the TURCK zone 1 coupler OC11Ex/2G.

The optocoupler OC11Ex/3G is equipped with

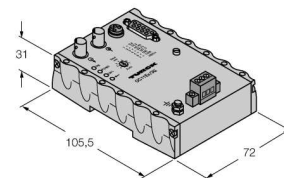
- RS485 interface – standard PROFIBUS-DP interface with RS485 level acc. to EIA 485 (the control cable for direction control is not connected)
- Intrinsically safe, optical interface with ST connectors for emitter and receiver.

Up to 31 bus nodes can be connected to the optocoupler. Baud rates of 9.6 kbps up to 1.5 Mbps are possible.

Four status LEDs for diagnostics are available, indicating power supply, fiber-optic segment, RS485 interface and baud rate. The device features an M8 communication interface. Two OC11Ex devices can be coupled together via the M8 interface. Wire-break and short-circuit are not transmitted from one segment to the next one. All segments can thus be operated trouble-free and independently of one another.

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 data transfer between electrical and optical fieldbus circuits**
- **Power supply of max. 31 nodes**
- **Mounting in zone 2 possible**
- **Note: Idle level corresponds to passive light!**

Dimensions

Type code	OC11EX/3G
Ident no.	6890424
Nominal voltage	24 VDC
Operating voltage range	18...32 VDC
Current consumption	≤ 100 mA
Galvanic separation	all-round galvanic separation acc. to EN 60079-11
Number of channels	1-channel
Transmission rate	9.6 kbps up to 1.5 Mbps
Ex approval acc. to conformity certificate	PTB 05 ATEX 2052 X // PTB 05 ATEX 2053 X
Device designation	Ⓔ II (2) G [Ex ib op is] IIC Ⓔ II 3 G Ex nA II T4
Indication	
Operational readiness	1 x green
State/ Fault	2 x yellow / red
Baude rate detection	1 x yellow
Housing material	Anodized aluminium
Front plate	FR4, grey
Connection mode	snap-fit on DIN rail (DIN 60715)
Protection class	IP20
Relative humidity	≤ 95% at 55 °C acc. to EN 60068-2
Vibration test	acc. to IEC 60068-2-6
Shock test	acc. to IEC 60068-2-27
EMC	acc. to EN 61326-1 (2006) acc. to Namur NE21 (2007)
MTTF	442 years acc. to SN 29500 (Ed. 99) 40 °C
Dimensions	75x 105.5x 31 mm
Weight	293 g