

Selection table	
Version	Ordering code
Interface RS 422	9372 / 11-21-20
Interface RS 485	9372 / 11-31-20

Safety data for optical interface	
Certifications Marking (ATEX) Classification	PTB (Europe) applied for, USA in preparation II 2 (1) G EEx ib [ia] IIC/IIB T4 associated electrical apparatus

Technical data	
Power supply	
Intrinsically safe power supply with $U_0 \leq 21 \text{ V}$, $P_0 \leq 1 \text{ W}$	
Rated voltage U_N Voltage range Residual ripple within voltage range Indication Polarity reversal protection	15 V DC, 12...19 V DC 0.5 V_{SS} LED green yes

Signal transmission

The communication signal at the intrinsically safe electrical interface is converted into an intrinsically safe optical signal. This optical signal is sent to the receiver via a fiber-optic cable. The receiver converts the optical signal back into an electrical communication signal.

The transmission speed is selectable between 1.2 Bit/s and 1.5 MBit/s.

Electrical interface	
RS 422 to EIA RS-422-A Connection Termination resistor R_{xD} Transmission line length	screwed terminals can be switched depending on transmission speed and cable, see table 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6 93.75; 187.5; 375; 500; 1000; 1500
Transmission speed in kBit/s	
RS 485 to EIA RS-485-A Connection Line termination network Transmission line length	screwed terminals can be switched depending on transmission speed and cable, see table 1.2; 2.4; 4.8; 9.6; 19.2; 38.4; 57.6 93.75; 187.5; 375; 500; 1000; 1500
Transmission speed in kBit/s	
Turn of time transmitter RS 485	$T \leq (11 \times \text{bit time})$

Transmission speed	
Transmission speed in Bit/s	Twisted pair $\varnothing 0,34 \text{ mm}^2$ (EN 50 170) – RS 485
1.2 k - 93.75 k	$\leq 1200 \text{ m}$
187.5 k	$\leq 1000 \text{ m}$
500 k	$\leq 400 \text{ m}$
1.5 M	$\leq 200 \text{ m}$

Optical Interface	
Connection	ST® / BFOC (2,5) socket
Transmission line length	$\leq 2000 \text{ m}$
Wave length	850 nm
Recommended fiber-optic cables	G 50/125 G 62.5/125 HCS

Dimensions (Casing type C), mechanical data, ambient conditions and accessories see page 3/58f.

