

Technical Data

Optical data	
Typ. operating range limit ¹⁾	0 ... 8m
Operating range ²⁾	0 ... 6m
Light source	LED (modulated light)
Wavelength	880nm
Optics diameter	10mm
Shadowing item	8mm
Eff. angle of radiation	max. $\pm 4^\circ$ acc. to EN 61496-2
Timing	
Switching frequency	100Hz
Response time	min. 5ms
Electrical data	
Operating voltage U_R ³⁾	24VDC \pm 15%
Residual ripple	\leq 10% of U_R (peak/peak)
Bias current	receiver \leq 15mA transmitter \leq 20mA
Switching output	pnp transistor output
Function characteristics	pnp light-on
Signal voltage high/low	$\geq (U_R - 2V) / \leq 2V$
Output current	max. 100mA
Indicators	
Receiver	
LED red	light path interrupted
LED green	light path free
Transmitter	
LED yellow	transmitter ON
Mechanical data	
Housing	Stainless steel, V2A (1.4305), polycarbonate rear panel
Optics	mineral glass
Weight	130g
Connection type	M8 connector
Environmental data	
Ambient temp. (operation/storage)	-20°C ... +60°C / -30°C ... + 70°C
Protective circuit ⁴⁾	2,3
Protection class	IP 65
Standards applied	IEC 90647-5-2
Options	
Activation input active	
Transmitter active/not active	$\geq 20V / \leq 2V$ or not connected
Activation/disable delay	$\leq 0.5ms$
Input resistance	10k Ω \pm 10%

1) Typ. operating range limit: max. attainable range without performance reserve

2) Operating range: recommended range with performance reserve

3) Functional extra-low voltage with reliable disconnection or protective extra-low voltage (VDE 0100/T 410)

4) 2=polarity reversal protection, 3=short circuit protection