



## Technical Data

<b>Optical data</b>	
Typ. operating range limit <sup>1)</sup>	0 ... 8m
Operating range <sup>2)</sup>	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 prEN50100-2 (edition 08/94)
<b>Timing</b>	
Switching frequency	100Hz
Response time	min. 5ms
<b>Electrical data</b>	
Operating voltage $U_B$ <sup>3)</sup>	24VDC $\pm$ 15%
Residual ripple	$\leq 10\%$ of $U_B$ (peak/peak)
Bias current	receiver $\leq 15$ mA transmitter $\leq 20$ mA
Switching output	PNP transistor output
Function characteristics	light switching
Signal voltage high/low	$\geq (U_B - 2V) \leq 2V$
Output current	max. 100mA
<b>Indicators</b>	
<b>Receiver</b>	
LED red	light path interrupted
LED green	light path free
<b>Transmitter</b>	
LED yellow	transmitter ON
<b>Mechanical data</b>	
Housing	diecast zinc, electroplated
Optics	mineral glass
Weight	130g
Connection type	cable, PUR, length 2.5m
<b>Environmental data</b>	
Ambient temp. (operation/storage)	-20°C ... +60°C / -30°C ... +70°C
Protective circuit <sup>4)</sup>	2,3
Protection class	IP65
Standards applied	IEC 90647-5-2
<b>Options</b>	
<b>Activation input active</b>	
Transmitter active/not active	$\geq 20V / \leq 2V$ or not connected
Activation/disable delay	$\leq 0.5$ ms
Input resistance	10k $\Omega$ $\pm$ 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