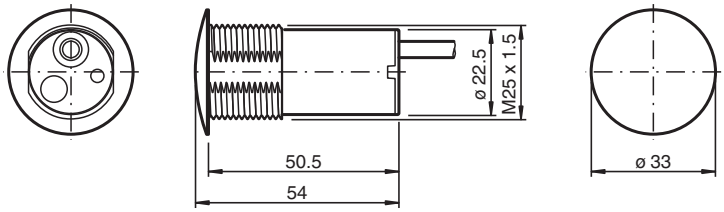
Thru-beam sensor
ARGOS-20M-SR1-4m

- Indicator LED on the front
- Protection against cross-talk with up to four devices
- Solid-state relay

Thru-beam sensor

Dimensions



Technical Data

System components		
Emitter		ARGOS-T
Receiver		ARGOS-R
General specifications		
Effective detection range		0.5 ... 20 m
Threshold detection range		28 m
Number of protective field beams		1
Light source		IRED
Light type		modulated infrared light 950 nm
Marking		CE
Diameter of the light spot		approx. 7.3 m at a distance of 20 m
Opening angle		20 °
Optical face		frontal
Ambient light limit		100000 Lux
Indicators/operating means		
Operation indicator		emitter LED green: power on
Function indicator		Receiver: LED red: lit when the light beam is interrupted
Stability alarm indicator		Receiver: flashing (approx. 4 Hz)
Electrical specifications		
Operating voltage	U_B	10 ... 30 V AC 10 ... 40 V DC
Operating current	I_B	Emitter: ≤ 10 mA Receiver: ≤ 25 mA
Power consumption	P_0	Emitter: ≤ 0.4 VA Receiver: ≤ 1 VA

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Technical Data

Output		
Output type		solid-state relay , NO contact
Switching type		light-on
Switching voltage		DC: max. 48 V AC: max. 50 V
Switching current		DC: max. 0.5 A AC: max. 0.6 A
Energized/De-energized delay		typ. 100 ms
Response time		≤ 100 ms
Conformity		
Product standard		EN 61000-6-2, EN 61000-6-3
Ambient conditions		
Ambient temperature		-20 ... 75 °C (-4 ... 167 °F)
Storage temperature		-20 ... 75 °C (-4 ... 167 °F)
Mechanical specifications		
Degree of protection		IP67 according to EN 60529
Connection		Emitter: 0.25 mm^2 , 3-wire 4 m fixed cable Receiver: 0.25 mm^2 , 5-wire 4 m fixed cable
Material		
Housing		PC2805 RF
Mass		Emitter: 116 g Receiver: 131 g
Dimensions		
Length		55 mm
Diameter		22.5 mm

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