



Thru-beam photoelectric sensor, transmitter, Sn=24m, 4L, 10-30VDC, NPN, PNP, M18, insulated material, M12



Powering Business Worldwide™

Part no. 11102AQD07
 Article no. 135565
 Catalog No. 11102AQD07

Delivery program

Basic function			Optical sensors
Product range			Comet Series
For connection of:			Plug-in connection M12 x 1
Design (outer dimensions)		mm	M18 x 1
Rated operational voltage	U_e		10 - 30 V DC
Rated switching distance	S_n	mm	24000
Description			Source (for combination with detector) Beam: straight
Connection			4-wire
Function			Thru-beam photoelectric sensor
Type of light			Visible red
Material			Insulated material
Switching type			NPN PNP
Information relevant for export to North America			
Product Standards UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking			
UL File No. E117028			
UL Category Control No. NRKH, NRKH7			
CSA File No. 50513			
CSA Class No. 3211-07			
North America Certification UL listed, CSA certified			
Max. Voltage Rating 30 V DC			
Degree of Protection IEC: IP68, IP69K; UL/CSA Type: 1, 4, 6			

Technical data

General

Standards			IEC/EN 60947-5-2
Ambient temperature			-20 - +70
Mechanical shock resistance		g	100 Shock duration 3 ms
Degree of Protection			IP67

Characteristics

Rated switching distance			
Rated switching distance	S_n	mm	24000
Range		mm	24
Rated operational voltage	U_e		10 - 30 V DC
Operating current in the switched state at 24 V DC	I_b	mA	25
Maximum load current	I_e	mA	< PNP: 100 NPN: 250 (120 > 55 °C)
Response time		ms	3.5
Operating voltage display		LED	red
Protective functions			Short-circuit protective device Protection against polarity reversal
Connection			4-wire
Style			
Design (outer dimensions)		mm	M18 x 1
For connection of:			Plug-in connection M12 x 1
Material			Insulated material

Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.		°C	-20
Operating ambient temperature max.		°C	70

Technical data ETIM 6.0

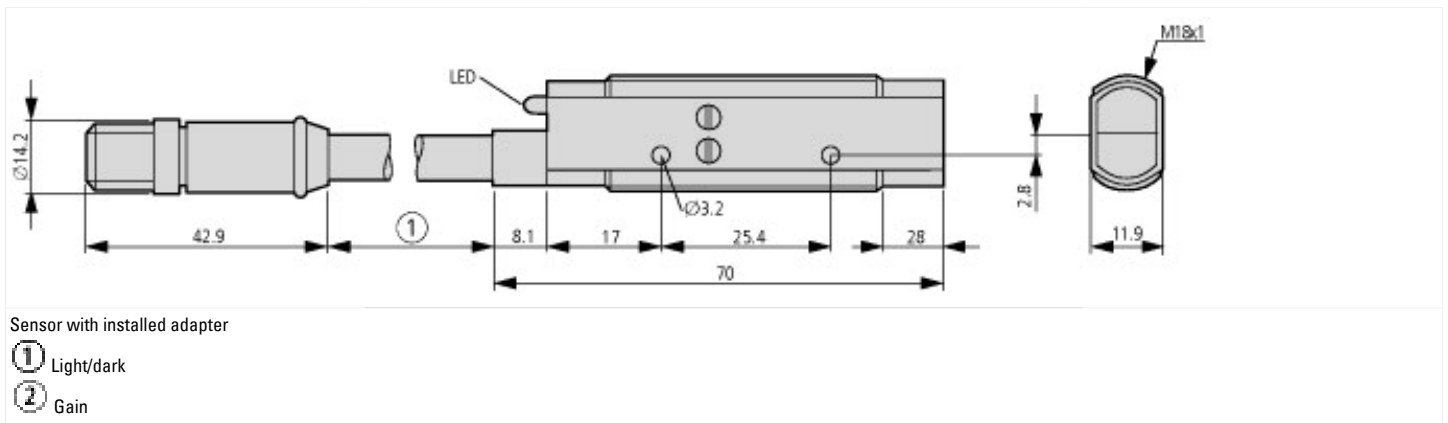
Sensors (EG000026) / One-way light barrier (EC002716)			
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor / One-way light barrier (ecl@ss8.1-27-27-09-01 [AKP250010])			
Scope of delivery of the one-way system			Transmitter
Opening angle		°	0
Pre failure notice			No
With time function			No
Rated switching distance		mm	24000
Max. switching distance		mm	24000
Max. output current		mA	100
Reflector included			No
Analogue output 0 V ... 10 V			No
Analogue output 0 mA ... 20 mA			No
Analogue output 4 mA ... 20 mA			No
Analogue output -10 V ... +10 V			No
With other analog output			No
Setting procedure			Manual adjustment
With communication interface analog			No
With communication interface AS-Interface			No
With communication interface CANOpen			No
With communication interface DeviceNet			No
With communication interface Ethernet			No
With communication interface INTERBUS			No
With communication interface PROFIBUS			No
With communication interface RS-232			No
With communication interface RS-422			No
With communication interface RS-485			No
With communication interface SSD			No
With communication interface SSI			No
Number of semiconductor outputs with signalling function			0
Number of contact energized outputs with signalling function			0
Number of protected semiconductor outputs			0
Number of protected contact energized outputs			0
Type of interface for safety communication			-
Type of electric connection			Connector M12
Type of switching output			-
Type of switch function			-
Operation agent-safety class			Safety class 2
Explosion safety category for gas			None
Explosion safety category for dust			None
Construction type housing			Cylinder, screw-thread
Width sensor		mm	0
Diameter sensor		mm	18
Height of sensor		mm	0
Length of sensor		mm	70
Switch function			Light-/dark switching
Material of optical surface			Plastic
Material housing			Plastic
Max. output current at protected output		mA	0
Min. reflector distance		mm	0

Ambient temperature	°C	-20 - 70
Time of reaction	ms	0
Transmission range of the safety field	m	0
Switching frequency	Hz	0
Type of safety acc. IEC 61496-1		-
Switching voltage of OSSD at state "high"	V	0
Rated control supply voltage Us at AC 50HZ	V	0 - 0
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	10 - 30
Voltage type		DC
With monitoring function downstream switching devices		No
Laser protection class		None
Wavelength of the sensor	nm	0
Type of light		Polarity free red light
Light dot	mm ²	0
AWG-number		0
Material of cable sheath		PUR (Polyurethane)
With restart blockage		No
Suitable for safety functions		No
Degree of protection (IP)		IP67

Approvals

Product Standards		UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
UL File No.		E117028
UL Category Control No.		NRKH, NRKH7
CSA File No.		50513
CSA Class No.		3211-07
North America Certification		UL listed, CSA certified
Max. Voltage Rating		30 V DC
Degree of Protection		IEC: IP68, IP69K; UL/CSA Type: 1, 4, 6

Dimensions



Additional product information (links)

IL05305002Z Comet Series Optical Sensors

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ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05305002Z2016_07.pdf