

Retroflective sensing sensor, Sn=3000mm, 4L, 10-30VDC, NPN, PNP, M18, insulated material, M12



Part no. 14101RQD07 Article no. 135653 Catalog No. 14101RQD07

110	livery	7 PAP	0 N P	2 122
112	IIVEL	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-

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	3000
Description			polarized light for combination with reflector Beam: right-angled
Connection			4-wire
Function			Reflex photoelectric sensor
Type of light			Visible red
Material			Insulated material
Switching type			NPN PNP
Switching principle			Adjustable bright/dark switching

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

For connection of:

Material

General

General			
Standards			IEC/EN 60947-5-2
Ambient temperature			-40 - +70
Mechanical shock resistance		g	100 Shock duration 3 ms
Degree of Protection			IP67
Characteristics			
Rated switching distance			
Rated switching distance	S_{n}	mm	3000
Range		mm	3
Rated operational voltage	U _e		10 - 30 V DC

Rated operational voltage	U _e		10 - 30 V DC
Operating current in the switched state at 24 V DC	I _b	mA	30
Maximum load current	l _e	mA	< PNP: 100 NPN: 250 (120 > 55 °C)
Response time		ms	1
Switching state display		LED	Red
Protective functions			Short-circuit protective device Protection against polarity reversal
Connection			4-wire
Style			
Design (outer dimensions)		mm	M18 x 1

Plug-in connection M12 x 1

Insulated material

Design verification as per IEC/EN 61439

- ·		
Technical data for design verification		
Operating ambient temperature min.	°C	-40
Operating ambient temperature max.	°C	70

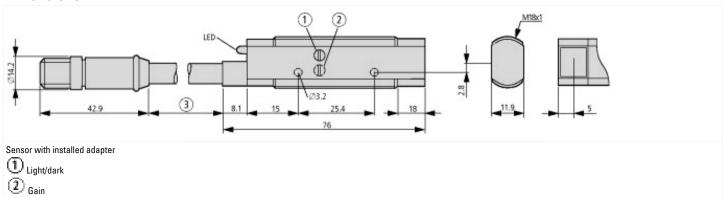
ensors (EG000026) / Reflection light barrier (EC002717)		
lectric engineering, automation, process control engineering / Binary sensor tec pcl@ss8.1-27-27-09-02 [AKP251010])	chnology, safety-relate	ed sensor technology / Optoelectronic sensor / Reflection light barrier
re failure notice		No
Vith time function		No
ated switching distance	mm	3000
Nax. switching distance	mm	0
Nax. output current	mA	100
eflector included		No
nalogue output 0 V 10 V		No
nalogue output 0 mA 20 mA		No
nalogue output 4 mA 20 mA		No
nalogue output -10 V +10 V		No
Vith other analog output		No
etting procedure		Manual adjustment
Vith communication interface analog		No
Vith communication interface AS-Interface		No
Vith communication interface CANOpen		No
Vith communication interface DeviceNet		No
Vith communication interface Ethernet		No
Vith communication interface INTERBUS		No
/ith communication interface PROFIBUS		No
Vith communication interface RS-232		No
Vith communication interface RS-422		No
Vith communication interface RS-485		No
/ith communication interface SSD		No
/ith communication interface SSI		No
umber of semiconductor outputs with signalling function		2
umber of contact energized outputs with signalling function		0
umber of protected semiconductor outputs		0
umber of protected contact energized outputs		0
ype of interface for safety communication		-
ype of electric connection		Connector M12
ype of switching output		PNP/NPN
ype of switch function		Programmable/configurable
peration agent-safety class		-
xplosion safety category for gas		None
xplosion safety category for dust		None
onstruction type housing		Cylinder, screw-thread
Vidth sensor	mm	0
iameter sensor	mm	18
eight of sensor	mm	0
ength of sensor	mm	76
witch function		Light-/dark switching
Naterial of optical surface		Plastic
Naterial housing		Plastic
Nax. output current at protected output	mA	0
1in. reflector distance	mm	0

Transmission range of the safety field	m	0
Switching frequency	Hz	500
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	mm²	0
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

IL05305002Z Comet Series Optical Sensors

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