DATASHEET - 13100AQD07



Diffuse reflective sensor, Sn=610mm, 4L, 10-30VDC, NPN, PNP, M18, insulated material, M12



Part no. 13100AQD07 Catalog No. 13100AQD07

EL-Nummer (Norway)

4315336

Delivery program

- 71 - 3			
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	610
Description			Beam: straight Can be expanded with fiber optic cable→Accessories
Connection			4-wire
Function			Reflected-light beam
Type of light			Infra-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

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				

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Characteristics					
S_{n}	mm	610			
	mm	0.6			
U_{e}		10 - 30 V DC			
I_b	mA	30			
I _e	mA	< PNP: 100 NPN: 250 (120 > 55 °C)			
	ms	1			
	LED	Red			
		Short-circuit protective device Protection against polarity reversal			
		4-wire			
	mm	M18 x 1			
	U _e	mm			

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	-40
Operating ambient temperature max.	°C	70

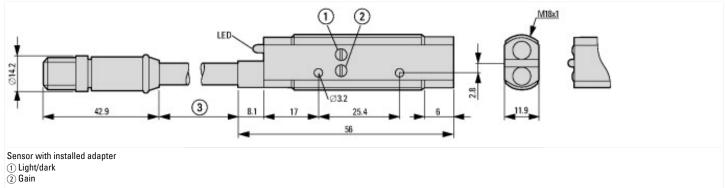
Technical data ETIM 7.0			
Sensors (EG00026) / Light scanner, energetic (EC001821)			
Electric engineering, automation, process control engineering / Binary sensor te (ecl@ss10.0.1-27-27-09-03 [AKP252013])	chnology, safety-re	elated se	ensor technology / Optoelectronic sensor / Light scanner, energetic
Operating distance	r	mm	0 - 0
Pre failure notice			No
With time function			No
Max. switching distance	r	mm	610
Max. output current	r	mA	250
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
Vith other analogue output			No
Setting procedure			Manual adjustment
Nith communication interface analogue			No
Nith communication interface AS-Interface			No
Nith communication interface CANOpen			No
Vith communication interface DeviceNet			No
Vith communication interface Ethernet			No
Vith communication interface INTERBUS			No
Vith communication interface PROFIBUS			No
Vith communication interface RS-232			No
Vith communication interface RS-422			No
Vith communication interface RS-485			No
Vith communication interface SSD			No
Vith communication interface SSI			No
lumber of semiconductor outputs with signalling function			2
lumber of contact energized outputs with signalling function			0
lumber of protected semiconductor outputs			0
lumber of protected contact energized outputs			0
ype of interface for safety communication			Other
ype of electric connection			Connector M12
ype of switching output			PNP/NPN
ype of switch function			Programmable/configurable
Operation agent-safety class			Safety class 2
xplosion safety category for gas			None
xplosion safety category for dust			None
Construction type housing			Cylinder, screw-thread
Vidth sensor	n	mm	0
Diameter sensor	n	mm	18
leight of sensor	n	mm	0
ength of sensor	n	mm	56
Sensing mode			Light-/dark switching
Material of optical surface			Plastic
Material housing			Plastic
Max. output current at protected output	n	mA	0

Min. reflector distance	mm	0
Time of reaction	ms	1
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
Voltage type		DC
With monitoring function downstream switching devices		No
Laser protection class		None
Wavelength of the sensor	nm	0
Type of light		Infrared light
Light dot	mm²	0
AWG-number		22
Material of cable sheath		Polyvinyl chloride (PVC)
With restart blockage		No
Suitable for safety functions		No
Degree of protection (IP)		IP67
Degree of protection (NEMA)		6
Ambient temperature	°C	40 - 70
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	٧	10 - 30

Approvals

UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
E117028
NRKH, NRKH7
50513
3211-07
UL listed, CSA certified
30 V DC
IEC: IP68, IP69K; UL/CSA Type: 1, 4, 6

Dimensions



Assets (links)

Declaration of CE Conformity

00002430

Instruction Leaflets

IL05305002Z2018_05

Additional product information (links)

IL05305002Z Comet Series Optical Sensors

IL05305002Z Comet Series Optical Sensors ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05305002Z2018_05.pdf