DATASHEET - E71-COP-M8



Proximity switch, optical, long range 80cm, 4L, 10-30VDC, PNP, M8

Powering Business Worldwide*

Part no. E71-COP-M8
Catalog No. 100428
Alternate Catalog E71-COP-M8

No.

EL-Nummer 0004315314

(Norway)

Delivery program

Basic function			Optical sensors
Product range			E71 NanoView Series
For connection of:			Plug-in connection M8 x 1
Design (outer dimensions)		mm	Rectangular (20 x 12 x 32)
Rated operational voltage	U _e		10 - 30 V DC
Rated switching distance	S _n	mm	800
Description			for combination with reflector Detection of transparent objects
Connection			4-wire
Function			Reflex photoelectric sensor
Type of light			Visible red
Material			Insulated material
Switching type			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. E166051

UL Category Control No. NRKH, NRKH7

CSA File No. UL report applies to both Canada and US

North America Certification UL listed, certified by UL for use in Canada

Max. Voltage Rating 30 V DC

Degree of Protection IEC: IP66; UL/CSA Type: -

Technical data

General			
Ambient temperature			-25 - +55
Operation	θ	°C	-25 - +55
Storage	θ	°C	-25 - +70
Mechanical shock resistance		g	30 Shock duration 11 ms
Degree of Protection			IP66
Vibration			Amplitude 0.5 mm: 10 - 55 Hz. IEC/EN 60068-2-6

Characteristics

Rated switching distance Sn mm 800 Rated operational voltage Ue 10 - 30 V DC Maximum load current Le mA < 100 Response time Switching state display Derating voltage display Protective functions Sn mm 800 10 - 30 V DC	Undi delle i sules			
Nated operational voltage Vertically a stated operational voltage display Vertically a stated operation voltage disp	Rated switching distance			
Maximum load current Le mA < 100 Witching Frequency Response time Maximum load current Maximum load curre	Rated switching distance	S_n	mm	800
Switching Frequency Hz 500 Response time ms 1 LED Yellow Departing voltage display Protective functions Protective functions Hz 500 Short-circuit protective device Protection against polarity reversal	Rated operational voltage	U _e		10 - 30 V DC
Response time ms 1 Switching state display LED Yellow Operating voltage display LED Green Protective functions Short-circuit protective device Protection against polarity reversal	Maximum load current	l _e	mA	< 100
Switching state display LED Yellow Departing voltage display LED Green Protective functions Short-circuit protective device Protection against polarity reversal	Switching Frequency		Hz	500
Operating voltage display LED Green Protective functions Short-circuit protective device Protection against polarity reversal	Response time		ms	1
Protective functions Short-circuit protective device Protection against polarity reversal	Switching state display		LED	Yellow
Protection against polarity reversal	Operating voltage display		LED	Green
Connection 4-wire	Protective functions			
	Connection			4-wire

Style		
Design (outer dimensions)	mm	Rectangular (20 x 12 x 32)
For connection of:		Plug-in connection M8 x 1
Material		Insulated material

Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature min.	o	°C	-25
Operating ambient temperature max.	o	°C	55

Technical data ETIM 7.0

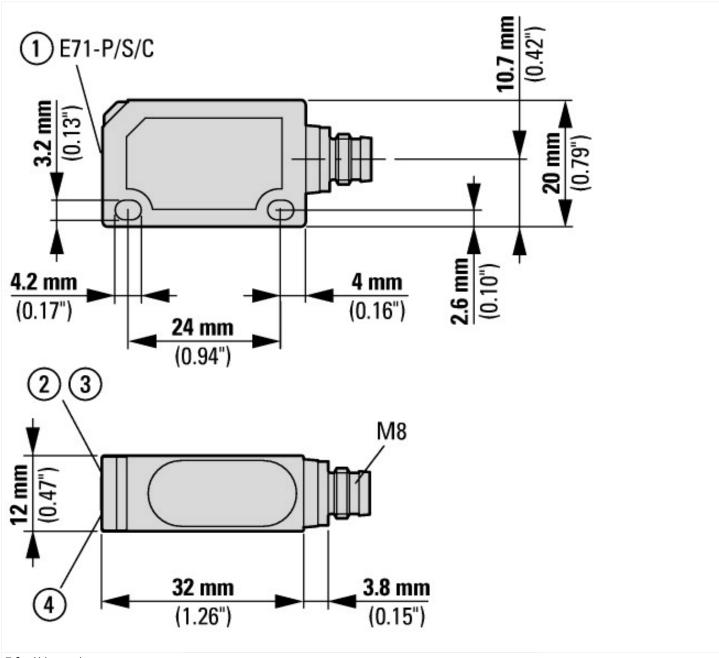
Technical data ETIM 7.0				
Sensors (EG000026) / Reflection light barrier (EC002717)				
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor / Reflection light barrier (ecl@ss10.0.1-27-27-09-02 [AKP251013])				
Pre failure notice		No		
With time function		No		
Rated switching distance	mm	800		
Max. switching distance	mm	800		
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 analogue output		No		
Setting procedure		Other		
With communication interface analogue		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		1		
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 M8		
Type of switching output		PNP		
Type of switch function		Other		
Operation agent-safety class				
Explosion safety category for gas		None		
Explosion safety category for dust		None		
Construction type housing		Cuboid		
Width sensor	mm	12		
Diameter sensor	mm	0		
Height of sensor	mm	32		
Length of sensor	mm	20		
Sensing mode		Light-/dark switching		
Material of optical surface		Plastic		

Material housing			Plastic
Max. output current at protected output		mA	0
Min. reflector distance	1	mm	0
Ambient temperature	•	°C	25 - 55
Time of reaction	1	ms	1
Transmission range of the safety field	1	m	0
Switching frequency		Hz	500
Type of safety acc. IEC 61496-1			
"Switching voltage of OSSD at state ""high"""	,	V	30
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	1	nm	660
Type of light			Polarity free red light
Light dot	1	mm²	0
With restart blockage			No
Suitable for safety functions			No
Degree of protection (IP)			IP66
Degree of protection (NEMA)			Other

Approvals

Product Standards UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking UL File No. E166051 UL Category Control No. NRKH, NRKH7 CSA File No. UL report applies to both Canada and US North America Certification UL listed, certified by UL for use in Canada		
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Mary Valteres Patien	North America Certification	UL listed, certified by UL for use in Canada
Max. voltage Hating	Max. Voltage Rating	30 V DC
Degree of Protection IEC: IP66; UL/CSA Type: -	Degree of Protection	IEC: IP66; UL/CSA Type: -

Dimensions



- Sensitivity potentiometer
 Stability LED
- 3 Power On LED
 4 Output LED

Assets (links)

Declaration of CE Conformity 00002590

Instruction Leaflets

IL05305006Z2018_05

Additional product information (links)

IL05305006Z NanoView Optical Sensors

IL05305006Z NanoView Optical Sensors

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05305006Z2018_05.pdf