



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

Part no. E71-COP-M8
Catalog No. 100428
Alternate Catalog No. E71-COP-M8
EL-Nummer (Norway) 4315314

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	ø	°C	-25 - +55
Storage	ø	°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			
Rated switching distance	S_n	mm	800
Rated operational voltage	U_e		10 - 30 V DC
Maximum load current	I_e	mA	< 100
Switching Frequency		Hz	500
Response time		ms	1
Switching state display		LED	Yellow
Operating voltage display		LED	Green
Protective functions			Short-circuit protective device Protection against polarity reversal
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.		°C	-25
Operating ambient temperature max.		°C	55

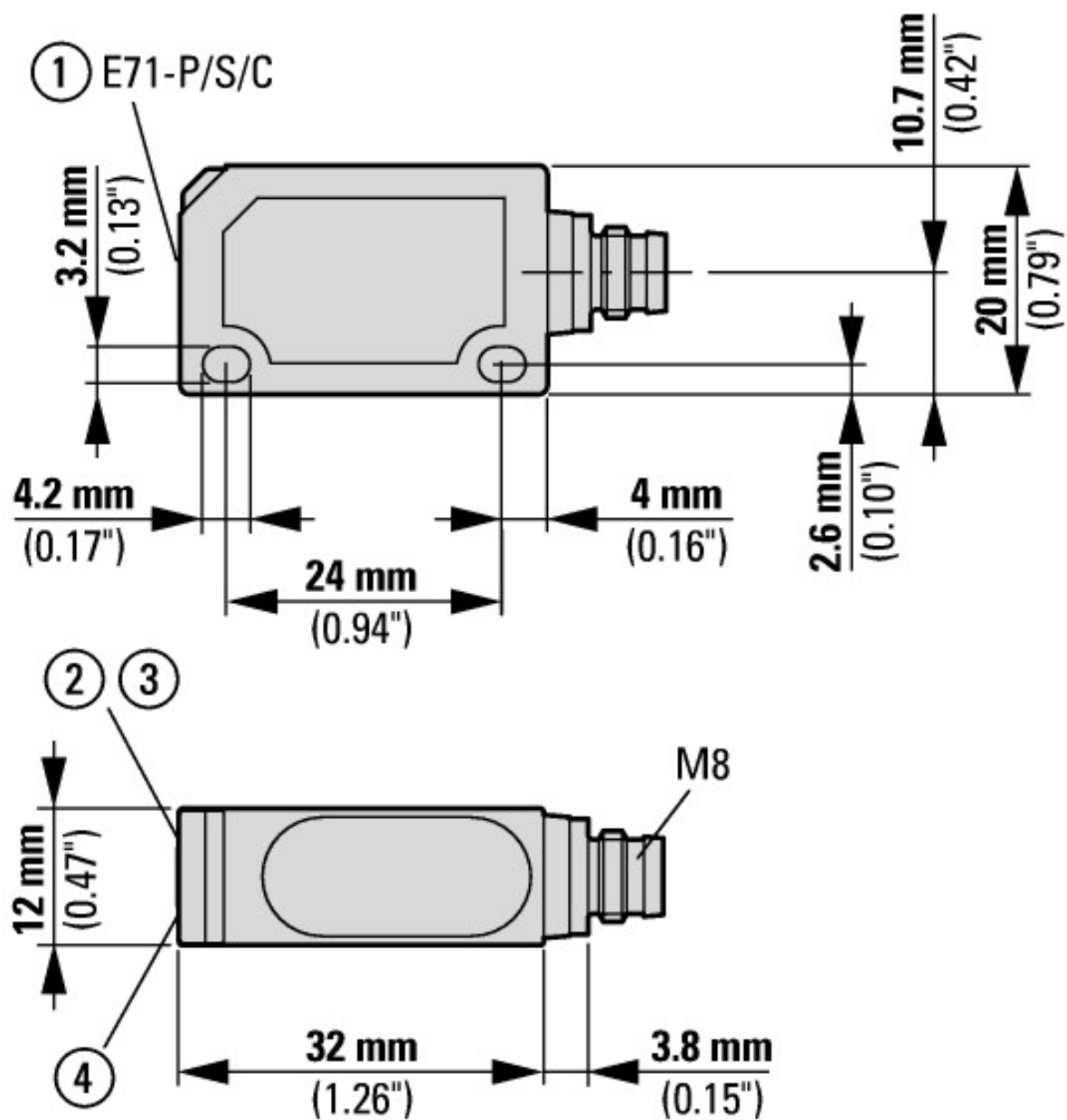
Technical data ETIM 7.0

Sensors (EG000026) / Reflection light barrier (EC002717)			
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor / Reflection light barrier (ecI@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	mm	0
Ambient temperature	°C	25 - 55
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	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	nm	660
Type of light		Polarity free red light
Light dot	mm ²	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
Max. Voltage Rating		30 V DC
Degree of Protection		IEC: IP66; UL/CSA Type: -



- ① Sensitivity potentiometer
- ② Stability LED
- ③ Power On LED
- ④ Output LED