

Proximity switch, optical, long range 2.5m, 4L, 10-30VDC, NPN cable



Part no. E71-PRN-CA Article no. 100523 Catalog No. E71-PRN-CA

Delivery program

Basic function			Optical sensors
Product range			E71 NanoView Series
For connection of:			2 m connection cable
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	2500
Description			polarized light
Connection			4-wire
Function			Reflex photoelectric sensor
Type of light			Visible red
Material			Insulated material
Switching type			NPN
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			
Rated switching distance	S_n	mm	2500
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:			2 m connection cable
Material			Insulated material

Design verification as per IEC/EN 61439

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

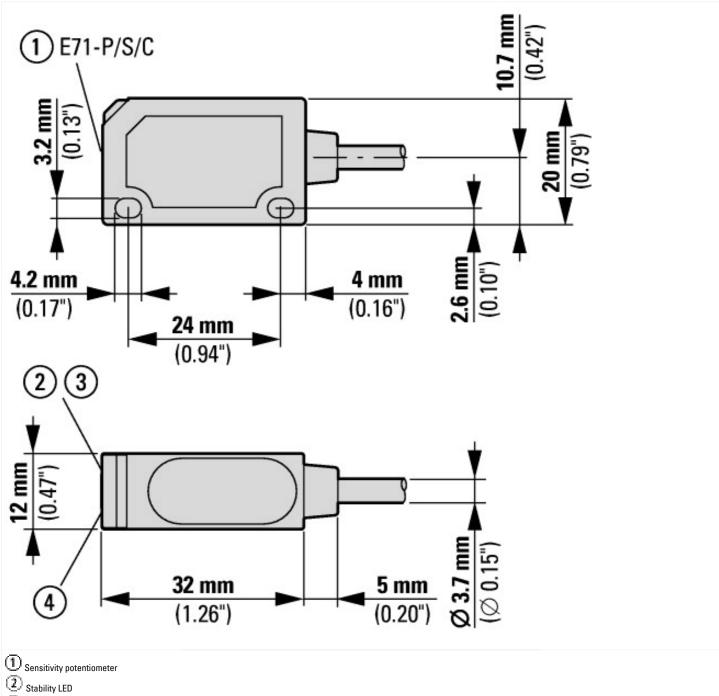
Technical data ETIM 6.0			
Sensors (EG000026) / Reflection light barrier (EC002717) Electric engineering, automation, process control engineering / Binary sensor tec	hnology cafety re	alatad se	oppor tachnology / Optoplostropic coppor / Reflection light barrier
(ecl@ss8.1-27-27-09-02 [AKP251010])	illiology, salety-re	eiateu St	ensor technology/ Optioelectronic sensor/ nenection light barrier
Pre failure notice			No
With time function			No
Rated switching distance	ı	mm	2500
Max. switching distance	ı	mm	2500
Max. output current	ı	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
Nith other analog output			No
Setting procedure			
With communication interface analog			No
With communication interface AS-Interface			No
With communication interface CANOpen			No
With communication interface DeviceNet			No
Nith communication interface Ethernet			No
Nith communication interface INTERBUS			No
Vith communication interface PROFIBUS			No
Nith communication interface RS-232			No
Nith communication interface RS-422			No
Nith communication interface RS-485			No
Nith communication interface SSD			No
Nith 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			Cable
Type of switching output			NPN
Type of switch function			-
Operation agent-safety class			
Explosion safety category for gas			None
explosion safety category for dust			None
Construction type housing			Cuboid
Nidth sensor	ı	mm	12
Diameter sensor		mm	0
Height of sensor		mm	32
ength of sensor		mm	20
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	0-0
Time of reaction			1
IIIIIE OI TEACUOII		ms	1

Transmission range of the safety field	m	1	0
Switching frequency	Hz	lz	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	nn	m	660
Type of light			Polarized red light
Light dot	mı	nm²	0
With restart blockage			No
Suitable for safety functions			No
Degree of protection (IP)			IP66

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: -

Dimensions



- (3) Power On LED
- $\textcircled{4}_{\text{Output LED}}$

Additional product information (links)

IL05305006Z NanoView Optical Sensors

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ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05305006Z2016_07.pdf