



Proximity switch, optical, long range 1.5m, 4L, 10-30VDC, NPN, cable

Part no. E71-NTBS-CA
Catalog No. 100521
Alternate Catalog No. E71-NTBS-CA
EL-Nummer (Norway) 4315316



Powering Business Worldwide™

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	1500
Description			Source (for combination with detector)
Connection			4-wire
Function			Thru-beam photoelectric sensor
Type of light			Infra-red
Material			Insulated material
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: IP67; 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			IP67
Vibration			Amplitude 0.5 mm: 10 - 55 Hz. IEC/EN 60068-2-6

Characteristics

Rated switching distance			
Rated switching distance	S _n	mm	1500
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

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) / One-way light barrier (EC002716)			
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor / One-way light barrier (ecl@ss10.0.1-27-27-09-01 [AKP250013])			
Scope of delivery of the one-way system			Transmitter
Opening angle	°	0	
Pre failure notice		No	
With time function		No	
Rated switching distance	mm	1500	
Max. switching distance	mm	1500	
Max. output current	mA	0	
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		0	
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		Other	
Type of electric connection		Cable	
Type of switching output		NPN	
Type of switch function		Other	
Operation agent-safety class		Safety class 2	
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	880
Type of light		Infrared light
Light dot	mm ²	0
AWG-number		22
Material of cable sheath		Other
With restart blockage		No
Suitable for safety functions		No
Degree of protection (IP)		IP67
Degree of protection (NEMA)		4

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: IP67; UL/CSA Type: -

Dimensions

