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Worldwide English



E71-NTBS-CA - Proximity switch, optical, long range 1.5m, 4L, 10-30VDC, NPN, cable



100521 E71-NTBS-CA

[Overview](#) [Specifications](#) [Resources](#)



100521 E71-NTBS-CA

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

Alternate Catalog No.

E71-NTBS-CA

EL-Nummer (Norway)

4315316

E71 NanoView series, product features: optical miniature sensor, very minimal size in cube form, IP66_x, status LED for Power und Output, light and dark switching, visible red LED beam enables simple commissioning and adjustment, thru-Beam version

• [Delivery program](#)

• [Technical data](#)

• [Design verification as per IEC/EN 61439](#)

• [Technical data ETIM 7.0](#)

• [Approvals](#)

• [Dimensions](#)

Delivery program

Basic function

Optical sensors

Product range

E71 NanoView Series

For connection of:

2 m connection cable

Design (outer dimensions)

Rectangular (20 x 12 x 32) mm

Rated operational voltage [U_b]

10 - 30 V DC

Rated switching distance [S_n]

1500 mm

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 [9]

-25 - +55 °C

Storage [9]

-25 - +70 °C

Mechanical shock resistance

30

Shock duration 11 ms g

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]

1500 mm

Rated operational voltage [U_a]

10 - 30 V DC

Maximum load current [I_e]

< 100 mA

Switching Frequency

500 Hz

Response time

1 ms

Switching state display

Yellow LED

Operating voltage display

Green LED

Protective functions

Short-circuit protective device

Protection against polarity reversal

Connection

4-wire

Style Design (outer dimensions)

Rectangular (20 x 12 x 32) mm

For connection of:

2 m connection cable

Material

Insulated material

Design verification as per IEC/EN 61439

Operating ambient temperature min.

-25 °C

Operating ambient temperature max.

+55 °C

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

1500 mm

Max. switching distance
1500 mm
Max. output current
0 mA
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
12 mm
Diameter sensor

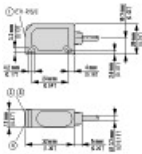
0 mm
 Height of sensor
 32 mm
 Length of sensor
 20 mm
 Sensing mode
 Light-/dark switching
 Material of optical surface
 Plastic
 Material housing
 Plastic
 Max. output current at protected output
 0 mA
 Min. reflector distance
 0 mm
 Ambient temperature
 25 - 55 °C
 Time of reaction
 1 ms
 Transmission range of the safety field
 0 m
 Switching frequency
 500 Hz
 Type of safety acc. IEC 61496-1
 "Switching voltage of OSSD at state ""high""
 30 V
 Rated control supply voltage U_s at AC 50Hz
 0 - 0 V
 Rated control supply voltage U_s at AC 60Hz
 0 - 0 V
 Rated control supply voltage U_s at DC
 10 - 30 V
 Voltage type
 DC
 With monitoring function downstream switching devices
 No
 Laser protection class
 None
 Wavelength of the sensor
 880 nm
 Type of light
 Infrared light
 Light dot
 0 mm²
 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



- ☐ Sensitivity potentiometer
- ☐ Stability LED
- ☐ Power On LED
- ☐ Output LED

CAD data

- Product-specific CAD data
(Web)
- 3D Preview
(Web)

DWG files

- DA-CD-90_28292_003
File
(Web)

Step files

- DA-CS-90_28292_003
File
(Web)

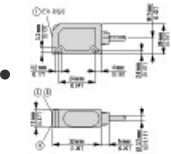
Product photo

- 
1360PIC-281
Photo

3D drawing

- 
1360DRW-189
Line drawing

Dimensions single product



- 1360DIM-352
Line drawing
- ☐ Sensitivity potentiometer
- ☐ Stability LED
- ☐ Power On LED
- ☐ Output LED

Instruction Leaflet

- [IL05305006Z](#)
Asset
(PDF, Int)

Declaration of Conformity

EU

- [Photoelectric Sensors, NanoView & InetliView Series \(DA-DC-00002590\)](#)
Asset
(PDF)

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