



135735
E65-SMTS15-HAD

Overview

Specifications

Resources



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
E65 SM Series

For connection of:
Plug-in connection M12 x 1

Design (outer dimensions)
33 x 41 x 37 mm

Rated operational voltage [U_a]
10 - 30 V DC

Rated switching distance [S_n]
15000 mm

Description
Source (for combination with detector)

Connection
4-wire

Function
Thru-beam photoelectric sensor

Material
Insulated material

Switching type
NPN

FNP

Notes

For combination with detector

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

CSA Class No. –

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

Max. Voltage Rating 30 V DC

Degree of Protection IEC: IP68, IP69K; UL/CSA Type: 1, 3, 4, 4x, 6, 6P, 12, 13

TECHNICAL DATA

General

Standards
IEC/EN 60947-5-2

Ambient temperature
-25 - +55

Operation [9]
-25 - +55 °C

Storage [9]
-25 - +70 °C

Mechanical shock resistance
50
Shock duration 10 ms g

Degree of Protection
IP68, IP69

Characteristics

Rated switching distance
Rated switching distance [S_n]
15000 mm

Range
15 mm

Rated operational voltage [U_o]
10 - 30 V DC

Maximum load current [I_b]
< 100 mA

Operating current in the switched state at 24 V DC [I_b]
40 mA

Response time
1 ms

Switching state display
Red LED

Operating voltage display
Green LED

Boundary gain
Yellow

Protective functions
Short-circuit protective device
Protection against polarity reversal
Protection against wire breakage

Connection
4-wire

Style
Design (outer dimensions)
33 x 41 x 37 mm

For connection of:
Plug-in connection M12 x 1

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 (ec@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
15000 mm

Max. switching distance
15000 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
Connector M12

Type of switching output
Other

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
33 mm

Diameter sensor
0 mm

Height of sensor
55 mm

Length of sensor
41 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
0 Hz

Type of safety acc. IEC 61496-1

"Switching voltage of OSSD at state ""high""
0 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
660 nm

Type of light
Polarity free red light

Light dot
0 mm²

AWG-number
0

Material of cable sheath
Other

With restart blockage
No

Suitable for safety functions
No

Degree of protection (IP)
IP67

Degree of protection (NEMA)
4X

APPROVALS

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DIMENSIONS



