



Overview

Specifications

Resources







DELIVERY PROGRAM

Delivery program

Technical data

Design verification as per IEC/EN 61439

Technical data ETIM 7.0

Approvals

Dimensions

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_e] 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

Degree of Protection IP68, IP69

Characteristics

Rated switching distance Rated switching distance $[S_n]$ 15000 mm

Range 15 mm Rated operational voltage [U_e] 10 - 30 V DC Maximum load current [le] < 100 mAOperating current in the switched state at 24 V DC [I_b] 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 $^{\circ}\text{C}$

Operating ambient temperature max. +55 $^{\circ}\mathrm{C}$

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 Receiver
Opening angle 0 $^{\circ}$
Pre failure notice No
With time function No
Rated switching distance 15000 mm
Max. switching distance 15000 mm
Max. output current 100 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

With communication interface DeviceNet Nb With communication interface Ethernet Nb With communication interface INTERBUS With communication interface PROFIBUS With communication interface RS-232 No With communication interface RS-422 Nb With communication interface RS-485 No With communication interface SSD No With communication interface SSI Number of semiconductor outputs with signalling function Number of contact energized outputs with signalling function Number of protected semiconductor outputs Number of protected contact energized outputs Type of interface for safety communication Other Type of electric connection Connector M12 Type of switching output PNP/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 33 mm
	Diameter sensor 0 mm
!	Height of sensor 55 mm
	Length of sensor 41 mm
	Sensing mode Light switching
	Material of optical surface Rastic
	Material housing Rastic
	Max. output current at protected output 0 mA
	Mn. 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 Us at AC 60HZ Rated control supply voltage Us at DC 10 - 30 V Voltage type DC With monitoring function downstreamswitching devices Nb 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 Nb Degree of protection (IP) Degree of protection (NEMA)

APPROVALS

Product Standards
UL 508; CSA-C22.2 No. 14; IEO60947-5-2; CE marking

UL File No. E166051 U.L Category Control No.
NRKH, NRKH7

CSA File No.
U.L report applies to both Canada and US

CSA Class No.

North America Certification
U.L listed, certified by U.L 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

DIMENSIONS











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