DATASHEET - E65-SMSD200-HDD



Diffuse reflective sensor, Sn=200mm, 4L, 10-30VDC, dark, NPN, PNP, quad 40, insulated material, M12



Part no. E65-SMSD200-HDD
Catalog No. 135727
Alternate Catalog No. E65-SMSD200-HDD
No.

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Basic function			Optical sensors
Product range			E65 SM Series
For connection of:			Plug-in connection M12 x 1
Design (outer dimensions)		mm	33 x 41 x 37
Rated operational voltage	U _e		10 - 30 V DC
Rated switching distance	S_n	mm	200
Connection			4-wire
Function			Reflected-light beam
Material			Insulated material
Switching type			NPN PNP
Switching principle			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

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	8	°C	-25 - +55
Storage	8	°C	-25 - +70
Mechanical shock resistance		g	50 Shock duration 10 ms
Degree of Protection			IP68, IP69

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Characteristics			
Rated switching distance			
Rated switching distance	S_n	mm	200
Range		mm	0.2
Rated operational voltage	U _e		10 - 30 V DC
Maximum load current	I _e	mA	< 100
Operating current in the switched state at 24 V DC		mA	20
Response time		ms	1
Switching state display		LED	Red
Operating voltage display		LED	Green
Boundary gain			Yellow
Protective functions			Short-circuit protective device Protection against polarity reversal Protection against wire breakage
Connection			4-wire

Style		
Design (outer dimensions)	mm	33 x 41 x 37
For connection of:		Plug-in connection M12 x 1
Material		Insulated material

Design verification as per IEC/EN 61439

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

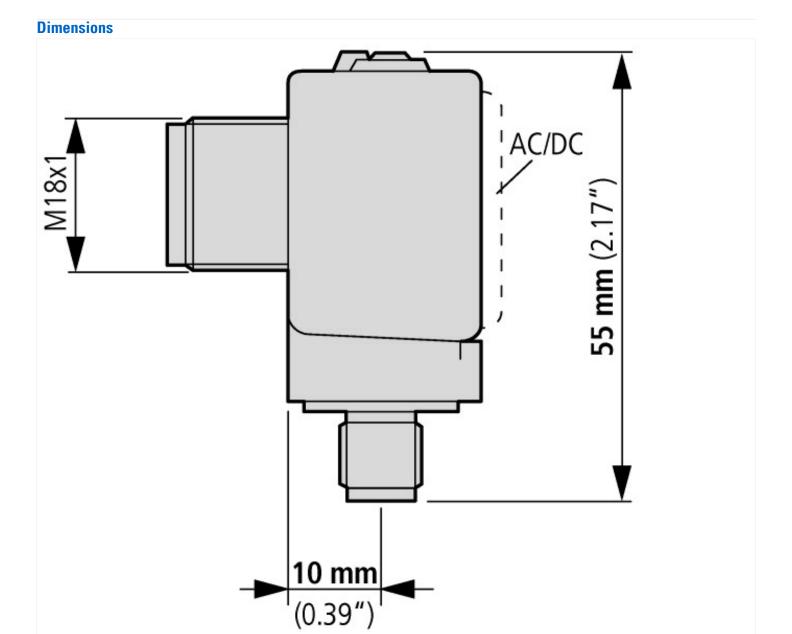
Technical data ETIM 7.0

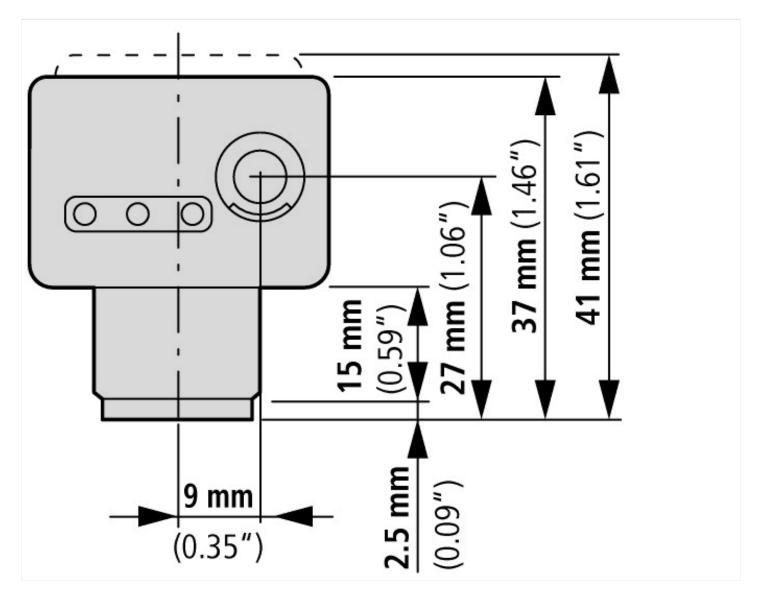
Technical data ETIM 7.0					
Sensors (EG000026) / Light scanner, energetic (EC001821)					
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor / Light scanner, energetic (ecl@ss10.0.1-27-27-09-03 [AKP252013])					
Operating distance		mm	0 - 0		
Pre failure notice			No		
With time function			No		
Max. switching distance		mm	200		
Max. output current		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		
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			2		
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			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		mm	33		
Diameter sensor		mm	0		
Height of sensor		mm	55		
Length of sensor		mm	41		
Sensing mode			Dark switching		
Material of optical surface			Plastic		

Material housing			Plastic
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Max. output current at protected output		mA	0
Min. reflector distance		mm	0
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
Voltage type			DC
With monitoring function downstream switching devices			No
Laser protection class			None
Wavelength of the sensor		nm	660
Type of light			Polarity free red light
Type of light Light dot		mm²	Polarity free red light 0
		mm²	· · · ·
Light dot		mm²	0
Light dot AWG-number		mm²	0
Light dot AWG-number Material of cable sheath		mm²	0 0 0 Other
Light dot AWG-number Material of cable sheath With restart blockage		mm²	0 0 Other No
Light dot AWG-number Material of cable sheath With restart blockage Suitable for safety functions		mm²	0 0 Other No
Light dot AWG-number Material of cable sheath With restart blockage Suitable for safety functions Degree of protection (IP)		mm²	0 0 Other No No IP67
Light dot AWG-number Material of cable sheath With restart blockage Suitable for safety functions Degree of protection (IP) Degree of protection (NEMA)			0 0 Other No No IP67
Light dot AWG-number Material of cable sheath With restart blockage Suitable for safety functions Degree of protection (IP) Degree of protection (NEMA) Ambient temperature		°C	0 0 0ther No No 1P67 6P 25 - 55

Approvals

UL File No. E166051 NRKH, NRKH7 CSA File No. UL report applies to both Canada and US - North America Certification Max. Voltage Rating E166051 NRKH, NRKH7 UL listed, certified by UL for use in Canada 30 V DC		
UL Category Control No. 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 30 V DC	Product Standards	UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
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CSA Class No. North America Certification Max. Voltage Rating UL listed, certified by UL for use in Canada 30 V DC	UL Category Control No.	NRKH, NRKH7
North America Certification UL listed, certified by UL for use in Canada 30 V DC	CSA File No.	UL report applies to both Canada and US
Max. Voltage Rating 30 V DC	CSA Class No.	-
	North America Certification	UL listed, certified by UL for use in Canada
Degree of Protection IEC: IP68, IP69K; UL/CSA Type: 1, 3, 4, 4x, 6, 6P, 12, 13	Max. Voltage Rating	30 V DC
	Degree of Protection	IEC: IP68, IP69K; UL/CSA Type: 1, 3, 4, 4x, 6, 6P, 12, 13





Assets (links)

Declaration of CE Conformity

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Instruction Leaflets

IL05305004Z2018_05

Additional product information (links)

IL05305004Z E65 SM Series Optical Sensors

IL05305004Z E65 SM Series Optical Sensors

 $ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05305004Z2018_05.pdf$