DATASHEET - E58-30TD250-HL



Thru-beam photoelectric sensor, receiver, Sn=250m, 4L, 10-30VDC, light, NPN, PNP, M30, metal



Part no. E58-30TD250-HL Catalog No. 135694 Alternate Catalog E58-30TD250-HL

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Basic function			Optical sensors
Product range			E58 Harsh Duty Series
For connection of:			2 m connection cable
Design (outer dimensions)		mm	M30 x 1.5
Rated operational voltage	U _e		10 - 30 V DC
Rated switching distance	S_n	mm	250000
Description			Detector (for combination with source)
Connection			4-wire
Function			Thru-beam photoelectric sensor
Material			Stainless steel
Switching type			NPN PNP
Switching principle			Light 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

 $\ensuremath{\mathsf{CSA}}$ 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, 2, 3, 3R, 3S, 4, 4x, 6, 6P, 12, 12K, 13

Technical data

Design (outer dimensions)

For connection of:

Material

General

Standards			IEC/EN 60947-5-2
Ambient temperature			-40 - +55
Mechanical shock resistance		g	100 Shock duration 3 ms
Degree of Protection			IP69
Characteristics			
Rated switching distance			
Rated switching distance	S_n	mm	250000
Range		mm	250
Rated operational voltage	U _e		10 - 30 V DC
Maximum load current	I _e	mA	< 100
Response time		ms	1.6
Switching state display		LED	Red
Protective functions			Short-circuit protective device Protection against polarity reversal Protection against wire breakage
Connection			4-wire
Style			

mm

M30 x 1.5

2 m connection cable

Stainless steel

Design verification as per IEC/EN 61439

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Technical data for design verification		
Operating ambient temperature min.	°C	-40
Operating ambient temperature max.	°C	55

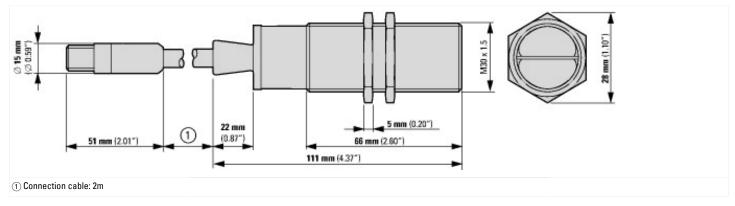
Technical data ETIM 7.0			
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Sensors (EG000026) / One-way light barrier (EC002716)			
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Optoelectronic sensor / One-way light barrier (ecl@ss10.0.1-27-27-09-01 [AKP250013])			
Scope of delivery of the one-way system		Receiver	
Opening angle	o	0	
Pre failure notice		No	
With time function		No	
Rated switching distance	mm	250000	
Max. switching distance	mm	0	
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		Cable	
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		Cylinder, screw-thread	
Width sensor	mm	0	
Diameter sensor	mm	30	
Height of sensor	mm	0	
Length of sensor	mm	111	
Sensing mode		Light-/dark switching	
Material of optical surface		Glass	
Material housing		Metal	
Max. output current at protected output	mA	0	
Min. reflector distance	mm	0	

Ambient temperature	°C	40 - 55
Time of reaction	ms	1.6
Transmission range of the safety field	m	0
Switching frequency	Hz	312
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	660
Type of light		Other
Light dot	mm²	0
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

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, 2, 3, 3R, 3S, 4, 4x, 6, 6P, 12, 12K, 13

Dimensions



Assets (links)

Declaration of CE Conformity

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Instruction Leaflets

IL05305003Z2018_05

Additional product information (links)

IL05305003Z E58 Series Harsh Environment Optical Sensors

IL05305003Z E58 Series Harsh Environment Optical Sensors $ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05305003Z2018_05.pdf$