DATASHEET - 13102A6517



Diffuse reflective sensor, Sn=40mm, 4L, 10-30VDC, NPN, PNP, M18, insulated material, line 2m



Part no. 13102A6517 Catalog No. 135591 Alternate Catalog 13102A6517

Delivery program

Basic function			Optical sensors
Product range			Comet Series
For connection of:			2 m connection cable
Design (outer dimensions)		mm	M18 x 1
Rated operational voltage	U _e		10 - 30 V DC
Rated switching distance	S_n	mm	40
Description			Beam: focused, forward viewing
Connection			4-wire
Function			Reflected-light beam
Type of light			Visible red
Material			Insulated material
Switching type			NPN PNP
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. E117028

UL Category Control No. NRKH, NRKH7

CSA File No. 50513

CSA Class No. 3211-07

North America Certification UL listed, CSA certified

Max. Voltage Rating 30 V DC

Degree of Protection IEC: IP68, IP69K; UL/CSA Type: 1, 4, 6

Technical data

General

Standards			IEC/EN 60947-5-2
Ambient temperature			-40 - +70
Mechanical shock resistance		g	100 Shock duration 3 ms
Degree of Protection			IP67
Characteristics			
Rated switching distance			
Rated switching distance	S_n	mm	40
Range		mm	0.04
Rated operational voltage	U _e		10 - 30 V DC

Characteristics			
Rated switching distance			
Rated switching distance	S_n	mm	40
Range		mm	0.04
Rated operational voltage	U _e		10 - 30 V DC
Operating current in the switched state at 24 V DC	I _b	mA	30
Maximum load current	l _e	mA	< PNP: 100 NPN: 250 (120 > 55 °C)
Response time		ms	1
Switching state display		LED	Red
Protective functions			Short-circuit protective device Protection against polarity reversal
Connection			4-wire
Style			
Design (outer dimensions)		mm	M18 x 1

For connection of:	2 m connection cable
Material	Insulated material

Design verification as per IEC/EN 61439

Technical data for design verification		
Operating ambient temperature min.	°C	-40
Operating ambient temperature max.	°C	70

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Ferbilar 1001 - 27-27-9-08 [AKP252013]) Operating distance
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With time function No Max. switching distance mm 40 Max. output current mA 250 Reflector included No No Analogue output 0 V 10 V No No Analogue output 4 mA 20 mA No No Analogue output -10 V +10 V No No With order analogue output No No Setting procedure Manual adjustment No With communication interface analogue No No With communication interface AS-Interface No No With communication interface EAVIDgen No No With communication interface EBFREE No No <
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Number of protected contact energized outputs 0 Type of interface for safety communication 0ther
Type of interface for safety communication Other
Type of electric connection Cable
Type of switching output PNP/NPN
Type of switch function Programmable/configurable
Operation agent-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 18
Height of sensor mm 0
Length of sensor mm 66
Sensing mode Light-/dark switching
Material of optical surface Plastic
Material housing Plastic
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	0
Voltage type		DC
With monitoring function downstream switching devices		No
Laser protection class		None
Wavelength of the sensor	nm	0
Type of light		Polarity free red light
Light dot	mm²	0
AWG-number		22
Material of cable sheath		Polyvinyl chloride (PVC)
With restart blockage		No
Suitable for safety functions		No
Degree of protection (IP)		IP67
Degree of protection (NEMA)		6
Ambient temperature	°C	40 - 70
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

Approvals

UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
E117028
NRKH, NRKH7
50513
3211-07
UL listed, CSA certified
30 V DC
IEC: IP68, IP69K; UL/CSA Type: 1, 4, 6

Dimensions

