Specifications







Eaton 14102RQD07

Eaton Moeller® series Insulated enclosure, Sn=4500mm, 4L, 10-30VDC, NPN, PNP, M18, metal, M12

General specifications	
PRODUCT NAME	Eaton Moeller® series E58 Diffuse reflective sensor
CATALOG NUMBER	14102RQD07
MODEL CODE	14102RQD07
UPC	782113846729
EAN	4015081324545
PRODUCT LENGTH/DEPTH	152.4 mm
PRODUCT HEIGHT	44.45 mm
PRODUCT WIDTH	152.4 mm
PRODUCT WEIGHT	0.23 kg
WARRANTY	3 year
CERTIFICATIONS	UL Recognized cUL Recognized UL Category Control No.: NRKH, NRKH7 UL 508 IEC/EN 60947-5-2 CSA File No.: 50513 CSA CSA-C22.2 No. 14 UL File No.: E117028 UL CE CSA Class No.: 3211-07
PRODUCT TYPE	Diffuse reflective sensor

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Product specifications

TYPE	Optical sensors
CONTACT RATING	100 mA PNP, 250 mA NPN at 10-30 Vdc
FEATURES	Non-polarized
ELECTRIC CONNECTION TYPE	Plug-in connection
ENCLOSURE MATERIAL	Polyurethane foam (RIM) Plastic
ENCLOSURE TYPE	Cylinder, screw-thread
OPERATING MODE	Switching principle: Adjustable bright/dark switching
CONNECTION	M12
CONTACT CONFIGURATION	NPN and PNP open collector
EXPLOSION SAFETY CATEGORY FOR DUST	None
SENSOR TYPE	Retroreflective
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Short-circuit protection For combination with reflector Protection against polarity reversal Reflected-light beam
VOLTAGE TYPE	DC
CONNECTION TYPE	Plug-in connection M12 x 1 4-wire
INPUT VOLTAGE	10-30 Vdc
LIGHT TYPE	Polarity free red light
DEGREE OF PROTECTION	IP67 NEMA Other
INTERFACE TYPE	Other
LED INDICATOR	Output ON Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Programmable/configurable
LOAD CURRENT	Max. 250 mA (Ie, NPN, 120 > 50°C) Max. 100 mA (Ie, PNP)
LASER PROTECTION CLASS	None
SHOCK RESISTANCE	100 g, Mechanical, Shock duration 3 ms
OPTICAL SURFACE MATERIAL	Plastic

Resources

CATALOGS	Product Range Catalog Sensors – products, basic information, applications Sensing Solutions,Photoelectric Sensor, Volume 8, Tab 5
DECLARATIONS OF CONFORMITY	eaton-proximity-sensor-declaration-of-conformity-eu251572en.pdf
DRAWINGS	eaton-proximity-switches-dimensions-002.eps eaton-proximity-switches-dimensions-010.eps eaton-proximity-switches-3d-drawing-005.eps
INSTALLATION INSTRUCTIONS	IL05305002Z
MCAD MODEL	DA-CS-90_28267_114 eaton-photoelectric-sensors-mcad-drawings-90-28267-114.dwg
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 14102RQD07

OUTPUT CURRENT (MA) - MAX	100 mA
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	30 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	10 V
RATED SWITCHING DISTANCE (SN)	4500 mm
SENSOR LENGTH	76 mm
VOLTAGE RATING - MAX	30 V
SAFETY TYPE (IEC 61496-1)	1
SWITCHING FREQUENCY	500 Hz
SENSING MODE	Light-/dark switching
SWITCHING OUTPUT TYPE	PNP
SENSOR MATERIAL	Insulated material
PRODUCT CATEGORY	Comet Series
NUMBER OF PINS	4
PROTECTION	Auto reset short circuit
RESPONSE TIME	1 ms
MAXIMUM DC CURRENT	100 mA PNP, 250 mA NPN
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
DIAMETER SENSOR	18 mm
NUMBER OF CONTACT ENERGIZED OUTPUTS WITH SIGNALLING FUNCTION	0
NUMBER OF OUTPUTS (PROTECTED CONTACT ENERGIZED)	0
NUMBER OF OUTPUTS (PROTECTED SEMICONDUCTOR)	0
NUMBER OF OUTPUTS (SEMICONDUCTOR WITH SIGNALING FUNCTION)	2
OPERATING TEMPERATURE - MAX	158 °F
OPERATING TEMPERATURE - MIN	-40 °F
OPERATIONAL	30 A

CURRENT (IB) IN THE SWITCHED STATE AT 24 V DC	
ENVIRONMENTAL RATING	NEMA 1, NEMA 3, NEMA 4, NEMA 4X, NEMA 6, NEMA 12, NEMA 13, IP69K
ADJUSTMENT TYPE	Manual adjustment

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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