Specifications



Eaton 13100RQD07

Eaton Moeller® series E58 Diffuse reflective sensor, Sn=610mm, 4L, 10-30VDC, NPN, PNP, M18, M12, insulated material

General specifications	
PRODUCT NAME	Eaton Moeller® series E58 Diffuse reflective sensor
CATALOG NUMBER	13100RQD07
MODEL CODE	13100RQD07
UPC	782113843568
EAN	4015081323784
PRODUCT LENGTH/DEPTH	152.4 mm
PRODUCT HEIGHT	44.45 mm
PRODUCT WIDTH	152.4 mm
PRODUCT WEIGHT	0.1 kg
WARRANTY	3 year
COMPLIANCES	CE Marked
CERTIFICATIONS	cUL Recognized UL Recognized CE UL File No.: E117028 CSA IEC/EN 60947-5-2 CSA File No.: 50513 CSA Class No.: 3211-07 UL UL Category Control No.: NRKH, NRKH7 UL 508 CSA-C22.2 No. 14
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	Right-angled beam
CABLE TYPE	Polyvinyl Chloride (PVC)
ELECTRIC CONNECTION TYPE	Connector M12
ENCLOSURE MATERIAL	Lens: polycarbonate Body: structural polyurethane foam Cable jacket: PVC Plastic
ENCLOSURE TYPE	Cylinder, screw-thread
OPERATING MODE	Diffuse reflective Switching principle: Adjustable bright/dark switching
CONNECTION	4-pin M12 connector
CONTACT CONFIGURATION	NPN and PNP open collector
EXPLOSION SAFETY CATEGORY FOR DUST	None
SENSOR TYPE	Diffuse reflective
SWITCH TYPE	Photoelectric
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Reflected-light beam Short-circuit protection Protection against polarity reversal
VOLTAGE TYPE	DC
WIRE SIZE	22
CONNECTION TYPE	4-wire Plug-in connection M12 x 1
INPUT VOLTAGE	10-30 Vdc
CABLE SHEATH MATERIAL	Polyvinyl chloride (PVC)
LIGHT TYPE	Infrared light
DEGREE OF PROTECTION	IP67 NEMA 6
INTERFACE TYPE	Other
LED INDICATOR	Output status: red Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Other
LOAD CURRENT	Max. 250 mA (Ie, NPN, 120

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-004.eps eaton-proximity-switches-3d-drawing-006.eps
INSTALLATION INSTRUCTIONS	IL05305002Z
MCAD MODEL	eaton-photoelectric-sensors-mcad-drawings-90-28267-105.dwg DA-CS-90_28267_105
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 13100RQD07

	> 50°C) Max. 100 mA (Ie, PNP)
LASER PROTECTION CLASS	None
OPERATION AGENT-SAFETY CLASS	Safety class 2
SHOCK RESISTANCE	100 g, Mechanical, Shock duration 3 ms
OPTICAL SURFACE MATERIAL	Plastic
OUTPUT CURRENT (MA) - MAX	250 mA
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	30 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED SWITCHING DISTANCE (SN)	610 mm
SENSOR LENGTH	65 mm
SWITCHING DISTANCE - MAX	610 mm
VOLTAGE RATING - MAX	30 V
SAFETY TYPE (IEC 61496-1)	1
SWITCHING FREQUENCY	500 Hz
SENSING MODE	Light-/dark switching
SWITCHING OUTPUT TYPE	NPN
SENSOR MATERIAL	Insulated material
PRODUCT CATEGORY	Comet Series
PROTECTION	Auto reset short circuit
RESPONSE TIME	1 ms
CORD LENGTH	8 in
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 CURRENT (IB) IN THE SWITCHED STATE AT 24 V DC	30 A
ENVIRONMENTAL RATING	NEMA 1, NEMA 3, NEMA 4, NEMA 4X, NEMA 6, NEMA 6P, NEMA 12, NEMA 13, IP68, IP69K
ADJUSTMENT TYPE	Manual adjustment

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

Eaton Corporation plc Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

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