Specifications



Eaton 13100AQD07

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

General specifications

PRODUCT NAME	Eaton Moeller® series E58 Diffuse reflective sensor
CATALOG NUMBER	13100AQD07
MODEL CODE	13100AQD07
UPC	782113843551
EAN	4015081323746
PRODUCT LENGTH/DEPTH	158.75 mm
PRODUCT HEIGHT	50.8 mm
PRODUCT WIDTH	133.35 mm
PRODUCT WEIGHT	0.091 kg
WARRANTY	3 year
CERTIFICATIONS	UL Recognized cUL Recognized CE UL CSA Class No.: 3211-07 CSA File No.: 50513 UL Category Control No.: NRKH, NRKH7 UL 508 CSA CSA-C22.2 No. 14 IEC/EN 60947-5-2 UL File No.: E117028
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	Straight beam
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	Diffuse reflective
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Reflected-light beam Protection against polarity reversal Short-circuit protection
VOLTAGE TYPE	DC
WIRE SIZE	22
CONNECTION TYPE	Plug-in connection M12 x 1 4-wire
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 ON Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Other
LOAD CURRENT	Max. 250 mA (Ie, NPN, 120 > 50°C) Max. 100 mA (Ie, PNP)
LASER PROTECTION CLASS	None
OPERATION AGENT-SAFETY CLASS	Safety class 2

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-003.eps eaton-proximity-switches-3d-drawing-007.eps
INSTALLATION INSTRUCTIONS	IL05305002Z
MCAD MODEL	eaton-photoelectric-sensors-mcad-drawings-90-28267-104.dwg DA-CS-90_28267_104
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 13100AQD07

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	10 V
RATED SWITCHING DISTANCE (SN)	610 mm
SENSOR LENGTH	56 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	PNP/NPN
SENSOR MATERIAL	Insulated material
ACCESSORIES	Can be expanded with fibre optic cable.
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	2

SIGNALING FUNCTION)	
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 12, NEMA 13, IP69K
ADJUSTMENT TYPE	Manual adjustment

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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