

Specifications



Eaton 13108AQD07

Eaton Moeller® series Diffuse reflective sensor, Sn=150mm, 4L, 10-30VDC, NPN, PNP, M18, insulated material, M12

General specifications

PRODUCT NAME	Eaton Moeller® series E58 Diffuse reflective sensor
CATALOG NUMBER	13108AQD07
MODEL CODE	13108AQD07
UPC	782113843650
EAN	4015081324309
PRODUCT LENGTH/DEPTH	158.75 mm
PRODUCT HEIGHT	50.8 mm
PRODUCT WIDTH	133.35 mm
PRODUCT WEIGHT	0.097 kg
WARRANTY	3 year
CERTIFICATIONS	cUL Recognized UL Recognized IEC/EN 60947-5-2 CSA-C22.2 No. 14 CE UL 508 CSA Class No.: 3211-07 CSA UL Category Control No.: NRKH, NRKH7 UL File No.: E117028 UL CSA File No.: 50513

Product specifications

TYPE	Optical sensors
CONTACT RATING	100 mA PNP, 250 mA NPN at 10-30 Vdc
FEATURES	Straight beam
ELECTRIC CONNECTION TYPE	Connector M12
FITTED WITH:	Background suppression (Perfect Prox)
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	Back ground suppression
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Short-circuit protection Reflected-light beam Protection against polarity reversal
VOLTAGE TYPE	DC
WIRE SIZE	22
CONNECTION TYPE	Plug-in connection M12 x 1 4-wire
INPUT VOLTAGE	10-30 Vdc
CABLE SHEATH MATERIAL	Other
LIGHT TYPE	Infrared light
DEGREE OF PROTECTION	NEMA 6 IP67
INTERFACE TYPE	Other
LED INDICATOR	Output ON Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Programmable/configurable
LOAD CURRENT	Max. 100 mA (Ie, PNP) Max. 250 mA (Ie, NPN, 120 > 50°C)

Resources

CATALOGS	Product Range Catalog Sensors – products, basic information, applications Sensing Solutions, Photoelectric Sensor, Volume 8, Tab 5
DECLARATIONS OF CONFORMITY	DA-DC-00004652.pdf DA-DC-00004657.pdf eaton-proximity-switches-dimensions-007.eps eaton-proximity-switches-dimensions-002.eps eaton-proximity-switches-3d-drawing-004.eps
DRAWINGS	
INSTALLATION INSTRUCTIONS	IL05305002Z
MCAD MODEL	DA-CS-90 28267 107 DA-CD-90 28267 107
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 13108AQD07

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
OUTPUT CURRENT AT PROTECTED OUTPUT - MAX	0 mA
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	30 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	10 V
RATED SWITCHING DISTANCE (SN)	150 mm
REFLECTOR DISTANCE - MIN	0 mm
SENSOR HEIGHT	0 mm
SENSOR LENGTH	66 mm
SWITCHING DISTANCE - MAX	150 mm
SWITCHING VOLTAGE OF OSSD AT STATE HIGH	30 V
TRANSMISSION RANGE OF THE SAFETY FIELD	0 m
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
TRIANGULATION	Background fade-out
WAVELENGTH OF THE SENSOR	0 nm
WIDTH SENSOR	0 mm
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
ADJUSTMENT RANGE - MAX	0 mm
ADJUSTMENT RANGE - MIN	0 mm
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
DIAMETER SENSOR	18 mm
LIGHT DOT SIZE	0 mm ²
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 DISTANCE - MAX	0 mm
OPERATING DISTANCE - MIN	0 mm
OPERATING TEMPERATURE - MAX	158 °F
OPERATING TEMPERATURE - MIN	-40 °F
OPERATIONAL CURRENT (IB) IN THE SWITCHED STATE AT 24	30 A

V DC

**ENVIRONMENTAL
RATING**

NEMA 1, NEMA 3, NEMA 4,
NEMA 4X, NEMA 6, NEMA
12, NEMA 13, IP69K

ADJUSTMENT TYPE

Other

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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