Specifications





Eaton 13104AQD07

Eaton Moeller® series Diffuse reflective sensor, Sn=50mm, 4L, 10-30VDC, PNP, NPN, M18, insulated material, M12, Beam: straight

General specifications	
PRODUCT NAME	Eaton Moeller® series E58 Diffuse reflective sensor
CATALOG NUMBER	13104AQD07
MODEL CODE	13104AQD07
UPC	782113843643
EAN	4015081323982
PRODUCT LENGTH/DEPTH	127 mm
PRODUCT HEIGHT	50.8 mm
PRODUCT WIDTH	152.4 mm
PRODUCT WEIGHT	0.094 kg
WARRANTY	3 year
CERTIFICATIONS	cUL Recognized UL Recognized UL 508 CSA Class No.: 3211-07 UL CSA-C22.2 No. 14 UL Category Control No.: NRKH, NRKH7 UL File No.: E117028 IEC/EN 60947-5-2 CSA CE CSA File No.: 50513
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	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
SERIES	Comet
EXPLOSION SAFETY CATEGORY FOR DUST	None
SENSOR TYPE	Back ground suppression
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Protection against polarity reversal Short-circuit protection Reflected-light beam
VOLTAGE TYPE	DC
WIRE SIZE	22
CONNECTION TYPE	4-wire Plug-in connection M12 x 1
INPUT VOLTAGE	10-30 Vdc
CABLE SHEATH MATERIAL	Other
LIGHT TYPE	Polarity free red 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)
LASER PROTECTION	None

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-007.eps eaton-proximity-switches-dimensions-002.eps eaton-proximity-switches-3d-drawing-004.eps
INSTALLATION INSTRUCTIONS	IL05305002Z
MCAD MODEL	DA-CS-90_28267_110 eaton-photoelectric-sensors-mcad-drawings-90-28267-110.dwg
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 13104AQD07

CLASS	
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	10 V
RATED SWITCHING DISTANCE (SN)	50 mm
SENSOR LENGTH	66 mm
SWITCHING DISTANCE - MAX	50 mm
SWITCHING VOLTAGE OF OSSD AT STATE HIGH	30 V
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
TRIANGULATION	Background fade-out
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	0

ENERGIZED)	
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 12, NEMA 13, IP69K
ADJUSTMENT TYPE	Other

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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