

Specifications

Eaton 13104A6517

Eaton Moeller® series Diffuse reflective sensor, Sn=50mm, 4L, 10-30VDC, PNP, NPN, M18, insulated material, line 2m

General specifications

PRODUCT NAME	Eaton Moeller® series E58 Diffuse reflective sensor
CATALOG NUMBER	13104A6517
MODEL CODE	13104A6517
UPC	782113823362
EAN	4015081323968
PRODUCT LENGTH/DEPTH	158.75 mm
PRODUCT HEIGHT	50.8 mm
PRODUCT WIDTH	133.35 mm
PRODUCT WEIGHT	0.169 kg
WARRANTY	3 year
CERTIFICATIONS	cUL Recognized UL Recognized CSA-C22.2 No. 14 CSA Class No.: 3211-07 IEC/EN 60947-5-2 CSA File No.: 50513 UL UL File No.: E117028 CSA UL 508 CE UL Category Control No.: NRKH, NRKH7

Product specifications

TYPE	Optical sensors
CONTACT RATING	100 mA PNP, 250 mA NPN at 10-30 Vdc
FEATURES	Straight beam
CABLE TYPE	Polyvinyl Chloride (PVC)
ELECTRIC CONNECTION TYPE	Cable
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
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	Protection against polarity reversal Short-circuit protection Reflected-light beam
VOLTAGE TYPE	DC
WIRE SIZE	22
CONNECTION TYPE	4-wire 2 m connection cable
INPUT VOLTAGE	10-30 Vdc
CABLE SHEATH MATERIAL	Polyvinyl chloride (PVC)
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. 250 mA (Ie, NPN, 120 > 50°C) Max. 100 mA (Ie, PNP)

Resources

CATALOGS	Product Range Catalog Sensors – products, basic information, applications Sensing Solutions, Photoelectric Sensor, Volume 8, Tab 5
DECLARATIONS OF CONFORMITY	DA-DC-00004657.pdf DA-DC-00004652.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_010 DA-CD-90_28267_010
SPECIFICATIONS AND DATASHEETS	Eaton Specification Sheet - 13104A6517

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)	50 mm
REFLECTOR DISTANCE - MIN	0 mm
SENSOR HEIGHT	0 mm
SENSOR LENGTH	66 mm
SWITCHING DISTANCE - MAX	50 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	PNP
SENSOR MATERIAL	Insulated material
TRIANGULATION	Background fade-out
WAVELENGTH OF THE SENSOR	0 nm
WIDTH SENSOR	0 mm
PRODUCT CATEGORY	Comet Series
PROTECTION	Auto reset short circuit
RESPONSE TIME	1 ms
CORD LENGTH	79.2 ft
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:



Eaton Corporation plc

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

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

