

Specifications



Eaton 135577

Eaton Moeller® series E58 Thru-beam photoelectric sensor, transmitter, Sn=24m, 4L, 10-30VDC, NPN, PNP, M18, insulated material, M12 12102AQD07

General specifications

PRODUCT NAME	Eaton Moeller® series E58 Thru-beam photoelectric sensor
CATALOG NUMBER	135577
MODEL CODE	12102AQD07
EAN	4015081323708
PRODUCT LENGTH/DEPTH	158.75 mm
PRODUCT HEIGHT	50.8 mm
PRODUCT WIDTH	133.35 mm
PRODUCT WEIGHT	0.32 kg
CERTIFICATIONS	CE CSA File No.: 50513 UL 508 CSA Class No.: 3211-07 IEC/EN 60947-5-2 UL UL Category Control No.: NRKH, NRKH7 CSA CSA-C22.2 No. 14 UL File No.: E117028

Product specifications

TYPE	Optical sensors
FEATURES	Straight beam
DEVICE TYPE	Receiver
ELECTRIC CONNECTION TYPE	Connector M12
ENCLOSURE MATERIAL	Plastic
ENCLOSURE TYPE	Cylinder, screw-thread
OPERATING MODE	Switching principle: Adjustable bright/dark switching
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Detector (for combination with source) Thru-light beam Short-circuit protection Protection against polarity reversal
VOLTAGE TYPE	DC
WIRE SIZE	0
CONNECTION TYPE	Plug-in connection M12 x 1 4-wire
CABLE SHEATH MATERIAL	Polyurethane (PUR)
LIGHT TYPE	Polarity free red light
DEGREE OF PROTECTION	NEMA 4 IP67
INTERFACE TYPE	Other
LED INDICATOR	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)
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	100 mA

Resources

CATALOGUES	Product Range Catalog Sensors – products, basic information, applications
DECLARATIONS OF CONFORMITY	eaton-proximity-sensor-declaration-of-conformity-eu251572en.pdf eaton-proximity-switches-dimensions-006.eps
DRAWINGS	eaton-proximity-switches-dimensions-002.eps eaton-proximity-switches-3d-drawing-002.eps
INSTALLATION INSTRUCTIONS	IL05305002Z
MCAD MODEL	eaton-photoelectric-sensors-mcad-drawings-90-28267-106.dwg DA-CS-90_28267_106

RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	30 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	10 V
RATED SWITCHING DISTANCE (SN)	24000 mm
SENSOR LENGTH	70 mm
SWITCHING DISTANCE - MAX	24000 mm
VOLTAGE RATING - MAX	30 V
SAFETY TYPE (IEC 61496- 1)	1
SWITCHING FREQUENCY	142 Hz
SENSING MODE	Light-/dark switching
SWITCHING OUTPUT TYPE	PNP
SENSOR MATERIAL	Insulated material
PRODUCT CATEGORY	Comet Series
RESPONSE TIME	7 ms
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-20 °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)	0
OPERATIONAL CURRENT (IB) IN THE SWITCHED STATE AT 24 V DC	30 A
ADJUSTMENT TYPE	Manual adjustment

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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