

Specifications

Eaton 135665



Eaton Moeller® series E58 Diffuse reflective sensor, Sn=100mm, 4L, 10-30VDC, dark, NPN, PNP, M18, metal, M12

General specifications

PRODUCT NAME	Eaton Moeller® series E58 Diffuse reflective sensor
CATALOG NUMBER	135665
MODEL CODE	E58-18DP100-HDP
EAN	4015081324583
PRODUCT LENGTH/DEPTH	38.1 mm
PRODUCT HEIGHT	38.1 mm
PRODUCT WIDTH	38.1 mm
PRODUCT WEIGHT	0.23 kg
CERTIFICATIONS	CE UL UL 508 CSA-C22.2 No. 14 UL Category Control No.: NRKH, NRKH7 UL File No.: E166051 CSA File No.: UL report applies to both US and Canada Certified by UL for use in Canada IEC/EN 60947-5-2

Product specifications

TYPE	Optical sensors
ELECTRIC CONNECTION TYPE	Connector M12
FITTED WITH:	Background suppression (Perfect Prox)
ENCLOSURE MATERIAL	Metal
ENCLOSURE TYPE	Cylinder, screw-thread
OPERATING MODE	Switching principle: Dark switching
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Reflected-light beam Protection against polarity reversal Short-circuit protection Protection against wire breakage
VOLTAGE TYPE	DC
WIRE SIZE	0
CONNECTION TYPE	4-wire Plug-in connection M12 x 1
CABLE SHEATH MATERIAL	Other
LIGHT TYPE	Other
DEGREE OF PROTECTION	NEMA 6 IP68
INTERFACE TYPE	Other
LED INDICATOR	Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Other
LOAD CURRENT	Max. 100 mA (Ie, PNP) Max. 250 mA (Ie, NPN)
LASER PROTECTION CLASS	None
OPERATION AGENT-SAFETY CLASS	Safety class 2
SHOCK RESISTANCE	100 g, Mechanical, Shock duration 3 ms
OPTICAL SURFACE MATERIAL	Glass
OUTPUT CURRENT (MA) - MAX	250 mA
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	30 V

Resources

DECLARATIONS OF CONFORMITY	eaton-proximity-sensor-declaration-of-conformity-eu251572en.pdf
DRAWINGS	eaton-proximity-switches-e58-diffuse-reflective-sensor-dimensions.eps eaton-proximity-switches-e58-diffuse-reflective-sensor-3d-drawing.eps
INSTALLATION INSTRUCTIONS	IL05305003Z

RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	10 V
RATED SWITCHING DISTANCE (SN)	100 mm
SENSOR LENGTH	80 mm
SWITCHING DISTANCE - MAX	127 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	Dark switching
SWITCHING OUTPUT TYPE	PNP
SENSOR MATERIAL	Stainless steel
TRIANGULATION	Background fade-out
WAVELENGTH OF THE SENSOR	660 nm
PRODUCT CATEGORY	E58 Harsh Duty Series
RESPONSE TIME	1 ms
ADJUSTMENT RANGE - MAX	100 mm
ADJUSTMENT RANGE - MIN	0 mm
AMBIENT OPERATING TEMPERATURE - MAX	55 °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 SIGNALING FUNCTION)	2
ADJUSTMENT TYPE	Other

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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