

Specifications

Eaton 135683



Eaton Moeller® series E58 Diffuse reflective sensor, Sn=280mm, 4L, 10-30VDC, light, NPN, PNP, M30, metal, M12

General specifications

PRODUCT NAME	Eaton Moeller® series E58 Diffuse reflective sensor
CATALOG NUMBER	135683
MODEL CODE	E58-30DPS280-HLP
EAN	4015081324767
PRODUCT LENGTH/DEPTH	38.1 mm
PRODUCT HEIGHT	38.1 mm
PRODUCT WIDTH	38.1 mm
PRODUCT WEIGHT	0.23 kg
CERTIFICATIONS	CSA-C22.2 No. 14 CSA File No.: UL report applies to both US and Canada UL File No.: E166051 CE IEC/EN 60947-5-2 UL UL 508 Certified by UL for use in Canada UL Category Control No.: NRKH, NRKH7



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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: Light switching
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Short-circuit protection Protection against polarity reversal Reflected-light beam Protection against wire breakage
VOLTAGE TYPE	DC
WIRE SIZE	0
CONNECTION TYPE	Plug-in connection M12 x 1 4-wire
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 (I _e)
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	100 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-002.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)	280 mm
SENSOR LENGTH	111 mm
SWITCHING DISTANCE - MAX	318 mm
SWITCHING VOLTAGE OF OSSD AT STATE HIGH	30 V
VOLTAGE RATING - MAX	30 V
SAFETY TYPE (IEC 61496-1)	1
SWITCHING FREQUENCY	312 Hz
SENSING MODE	Light switching
SWITCHING OUTPUT TYPE	PNP/NPN
SENSOR MATERIAL	Stainless steel
TRIANGULATION	Background fade-out
WAVELENGTH OF THE SENSOR	660 nm
PRODUCT CATEGORY	E58 Harsh Duty Series
RESPONSE TIME	1.6 ms
ADJUSTMENT RANGE - MAX	280 mm
ADJUSTMENT RANGE - MIN	0 mm
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
DIAMETER SENSOR	30 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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