

Specifications



Eaton 135713

Eaton Moeller® series E65 Diffuse reflective sensor, Sn=100mm, 4L, 10-30VDC, light, NPN, PNP, quad 40, insulated material, M12

General specifications

PRODUCT NAME	Eaton Moeller® series E65 Diffuse reflective sensor
CATALOG NUMBER	135713
MODEL CODE	E65-SMPP100-HLD
EAN	4015081325061
PRODUCT LENGTH/DEPTH	139.7 mm
PRODUCT HEIGHT	139.7 mm
PRODUCT WIDTH	38.1 mm
PRODUCT WEIGHT	0.11 kg
CERTIFICATIONS	CSA File No.: UL report applies to both US and Canada IEC/EN 60947-5-2 UL File No.: E166051 UL Certified by UL for use in Canada CE UL 508 CSA-C22.2 No. 14 UL Category Control No.: NRKH, NRKH7
CATALOG NOTES	Yellow

Product specifications

TYPE	Optical sensors
ELECTRIC CONNECTION TYPE	Connector M12
FITTED WITH:	Background suppression (Perfect Prox)
ENCLOSURE MATERIAL	Plastic
ENCLOSURE TYPE	Cuboid
OPERATING MODE	Switching principle: Light switching
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Protection against wire breakage Short-circuit protection Reflected-light beam Protection against polarity reversal
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 Status indication of Operating voltage: Green 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	50 g, Mechanical, Shock duration 10 ms
OPTICAL SURFACE MATERIAL	Plastic
OUTPUT CURRENT (MA) - MAX	100 mA
OUTPUT CURRENT AT	100 mA

Resources

DECLARATIONS OF CONFORMITY	eaton-proximity-sensor-declaration-of-conformity-eu251572en.pdf
DRAWINGS	eaton-proximity-switches-dimensions-012.eps eaton-proximity-switches-e65-diffuse-reflective-sensor-dimensions.eps eaton-proximity-switches-3d-drawing.eps
INSTALLATION INSTRUCTIONS	IL05305004Z
MCAD MODEL	eaton-photoelectric-sensors-mcad-drawings-90-28290-004.dwg DA-CS-90_28290_004

PROTECTED OUTPUT - MAX	
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	30 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	10 V
RATED SWITCHING DISTANCE (SN)	100 mm
SENSOR HEIGHT	55 mm
SENSOR LENGTH	41 mm
SWITCHING DISTANCE - MAX	100 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 switching
SWITCHING OUTPUT TYPE	NPN
SENSOR MATERIAL	Insulated material
TRIANGULATION	Background fade-out
WAVELENGTH OF THE SENSOR	660 nm
WIDTH SENSOR	33 mm
PRODUCT CATEGORY	E65 SM 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	-25 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MIN	-25 °C
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)	1
OPERATING TEMPERATURE - MAX	55 °C
OPERATING TEMPERATURE - MIN	-25 °C
OPERATIONAL CURRENT (IB) IN THE SWITCHED STATE AT 24 V DC	20 A
ADJUSTMENT TYPE	Other

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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