

Specifications



Eaton 135731

Eaton Moeller® series E65 Thru-beam photoelectric sensor, receiver, Sn=15m, 4L, 10-30VDC, dark, NPN, PNP, quad 40, insulated material E65-SMTD15-HDD

General specifications

PRODUCT NAME	Eaton Moeller® series E65 Thru-beam photoelectric sensor
CATALOG NUMBER	135731
MODEL CODE	E65-SMTD15-HDD
EAN	4015081325245
PRODUCT LENGTH/DEPTH	139.7 mm
PRODUCT HEIGHT	139.7 mm
PRODUCT WIDTH	38.1 mm
PRODUCT WEIGHT	0.11 kg
CERTIFICATIONS	Certified by UL for use in Canada UL 508 IEC/EN 60947-5-2 CE UL Category Control No.: NRKH, NRKH7 CSA-C22.2 No. 14 CSA File No.: UL report applies to both US and Canada UL UL File No.: E166051
CATALOG NOTES	Yellow

Product specifications

TYPE	Optical sensors
DEVICE TYPE	Receiver
ELECTRIC CONNECTION TYPE	Connector M12
ENCLOSURE MATERIAL	Plastic
ENCLOSURE TYPE	Cuboid
OPERATING MODE	Switching principle: Dark switching
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Thru-light beam Detector (for combination with source) Protection against polarity reversal For combination with transmitter Protection against wire breakage Short-circuit protection
VOLTAGE TYPE	DC
WIRE SIZE	0
CONNECTION TYPE	4-wire Plug-in connection M12 x 1
CABLE SHEATH MATERIAL	Polyvinyl chloride (PVC)
LIGHT TYPE	Polarity free red light
DEGREE OF PROTECTION	NEMA 4X IP68
INTERFACE TYPE	Other
LED INDICATOR	Status indication of Operating voltage: Green LED Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Other
LOAD CURRENT	Max. 100 mA (Ie)
LASER PROTECTION CLASS	None
OPERATION AGENT-SAFETY CLASS	Safety class 2
SHOCK RESISTANCE	50 g, Mechanical, Shock duration 10 ms
OPTICAL SURFACE MATERIAL	Plastic

Resources

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

OUTPUT CURRENT (MA) - MAX	100 mA
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	30 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	10 V
RATED SWITCHING DISTANCE (SN)	15000 mm
SENSOR HEIGHT	55 mm
SENSOR LENGTH	41 mm
SWITCHING DISTANCE - MAX	15000 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	NPN
SENSOR MATERIAL	Insulated material
WAVELENGTH OF THE SENSOR	660 nm
WIDTH SENSOR	33 mm
PRODUCT CATEGORY	E65 SM Series
RESPONSE TIME	1 ms
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	2

SIGNALING FUNCTION)	
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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