

Specifications



Eaton 100521

Eaton Moeller® series E71 Proximity switch, optical, long range 1.5m, 4L, 10-30VDC, NPN, cable

General specifications

PRODUCT NAME	Eaton Moeller® series E71 Proximity switch
CATALOG NUMBER	100521
MODEL CODE	E71-NTBS-CA
EAN	4015081643295
PRODUCT LENGTH/DEPTH	340.77 mm
PRODUCT HEIGHT	18.03 mm
PRODUCT WIDTH	15.24 mm
PRODUCT WEIGHT	0.24 kg
CERTIFICATIONS	CSA-C22.2 No. 14 CSA File No.: UL report applies to both US and Canada UL UL Category Control No.: NRKH, NRKH7 IEC/EN 60947-5-2 Certified by UL for use in Canada CE UL 508 UL File No.: E166051



Powering Business Worldwide

Product specifications

TYPE	Optical sensors
DEVICE TYPE	Transmitter
ELECTRIC CONNECTION TYPE	Cable
FITTED WITH:	Transmitter (for combination with detector)
ENCLOSURE MATERIAL	Plastic
ENCLOSURE TYPE	Cuboid
OPERATING MODE	Switching principle: Adjustable bright/dark switching
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
FUNCTIONS	Short-circuit protection Thru-light beam Protection against polarity reversal
VOLTAGE TYPE	DC
WIRE SIZE	22
CONNECTION TYPE	4-wire 2 m connection cable
CABLE SHEATH MATERIAL	Other
LIGHT TYPE	Infrared light
DEGREE OF PROTECTION	IP67 NEMA 4
INTERFACE TYPE	Other
LED INDICATOR	Status indication of Operating voltage: Green LED Status indication of Switching state: Yellow 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	30 g, Mechanical, Shock duration 11 ms
OPTICAL SURFACE MATERIAL	Plastic
RATED CONTROL SUPPLY VOLTAGE (US) AT DC -	30 V

Resources

BROCHURES	eaton-sensors-brochure-br053001en-en-us.pdf
CATALOGUES	Product Range Catalog Sensors – products, basic information, applications
DRAWINGS	eaton-proximity-switches-proximity-switch-dimensions-023.eps eaton-proximity-switches-proximity-switch-3d-drawing-002.eps
INSTALLATION INSTRUCTIONS	IL05305006Z DA-CS-90_28292_003
MCAD MODEL	eaton-photoelectric-sensors-mcad-drawings-90-28292-003.dwg

MAX	
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	10 V
RATED SWITCHING DISTANCE (SN)	1500 mm
SENSOR HEIGHT	32 mm
SENSOR LENGTH	20 mm
SWITCHING DISTANCE - MAX	1500 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-/dark switching
SWITCHING OUTPUT TYPE	NPN
SENSOR MATERIAL	Insulated material
VIBRATION RESISTANCE	According to IEC/EN 60068-2-6 10 - 55 Hz, Amplitude 0.5 mm
WAVELENGTH OF THE SENSOR	880 nm
WIDTH SENSOR	12 mm
PRODUCT CATEGORY	E71 NanoView 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	0

SIGNALING FUNCTION)	
OPERATING TEMPERATURE - MAX	55 °C
OPERATING TEMPERATURE - MIN	-25 °C
ADJUSTMENT TYPE	Other

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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