



Eaton 100429

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

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PRODUCT NAME	Eaton Moeller® series E71 Proximity switch
CATALOG NUMBER	100429
PRODUCT LENGTH/DEPTH	536.45 mm
PRODUCT HEIGHT	18.03 mm
PRODUCT WIDTH	15.24 mm
PRODUCT WEIGHT	0.24 kg
CERTIFICATIONS	CSA-C22.2 No. 14 UL Category Control No.: NRKH, NRKH7 Certified by UL for use in Canada UL UL 508 UL File No.: E166051 CSA File No.: UL report applies to both US and Canada IEC/EN 60947-5-2 CE

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TYPE	Optical sensors
FEATURES	Focused, forward viewing beam
ELECTRIC CONNECTION TYPE	Cable
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	Protection against polarity reversal Short-circuit protection Reflected-light beam
VOLTAGE TYPE	DC
WIRE SIZE	0
CONNECTION TYPE	2 m connection cable 4-wire
CABLE SHEATH MATERIAL	Other
LIGHT TYPE	Polarity free red light Visible red light
DEGREE OF PROTECTION	NEMA 4 IP67
INTERFACE TYPE	Other
LED INDICATOR	Status indication of Switching state: Yellow LED Status indication of Operating voltage: Green LED
SWITCH FUNCTION TYPE	Other
LOAD CURRENT	Max. 100 mA (Ie)
LASER PROTECTION CLASS	None
OPERATION AGENT-SAFETY CLASS	Safety class 2
SHOCK RESISTANCE	30 g, Mechanical, Shock duration 11 ms
OPTICAL SURFACE MATERIAL	Plastic
OUTPUT CURRENT (MA) - MAX	100 mA
RATED CONTROL SUPPLY	30 V

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VOLTAGE (US) AT DC - MAX	
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	10 V
RATED SWITCHING DISTANCE (SN)	100 mm
SENSOR HEIGHT	32 mm
SENSOR LENGTH	20 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-/dark switching
SWITCHING OUTPUT TYPE	NPN
SENSOR MATERIAL	Insulated material
VIBRATION RESISTANCE	10 - 55 Hz, Amplitude 0.5 mm According to IEC/EN 60068-2-6
WAVELENGTH OF THE SENSOR	660 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	1

(SEMICONDUCTOR WITH SIGNALING FUNCTION)	
OPERATING DISTANCE - MAX	100 mm
OPERATING DISTANCE - MIN	0 mm
OPERATING TEMPERATURE - MAX	55 °C
OPERATING TEMPERATURE - MIN	-25 °C
ADJUSTMENT TYPE	Manual adjustment

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