

# Specifications

## Eaton 100525

Eaton Moeller® series E71 Proximity switch, optical, long range 2.5m, 4L, 10-30VDC, PNP, cable

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series E71 Proximity switch
<b>CATALOG NUMBER</b>	100525
<b>MODEL CODE</b>	E71-PRP-CA
<b>EAN</b>	4015081643325
<b>PRODUCT LENGTH/DEPTH</b>	471.83 mm
<b>PRODUCT HEIGHT</b>	18.03 mm
<b>PRODUCT WIDTH</b>	15.24 mm
<b>PRODUCT WEIGHT</b>	0.24 kg
<b>CERTIFICATIONS</b>	UL Category Control No.: NRKH, NRKH7 Certified by UL for use in Canada CE UL 508 UL File No.: E166051 CSA File No.: UL report applies to both US and Canada CSA-C22.2 No. 14 IEC/EN 60947-5-2 UL

## Product specifications

<b>TYPE</b>	Optical sensors
<b>FEATURES</b>	Polarized light
<b>ELECTRIC CONNECTION TYPE</b>	Cable
<b>ENCLOSURE MATERIAL</b>	Plastic
<b>ENCLOSURE TYPE</b>	Cuboid
<b>OPERATING MODE</b>	Switching principle: Adjustable bright/dark switching
<b>EXPLOSION SAFETY CATEGORY FOR DUST</b>	None
<b>EXPLOSION SAFETY CATEGORY FOR GAS</b>	None
<b>FUNCTIONS</b>	Short-circuit protection Protection against polarity reversal Reflected-light beam
<b>VOLTAGE TYPE</b>	DC
<b>CONNECTION TYPE</b>	2 m connection cable 4-wire
<b>LIGHT TYPE</b>	Polarized red light
<b>DEGREE OF PROTECTION</b>	IP66 NEMA Other
<b>INTERFACE TYPE</b>	Other
<b>LED INDICATOR</b>	Status indication of Switching state: Yellow LED Status indication of Operating voltage: Green LED
<b>SWITCH FUNCTION TYPE</b>	Other
<b>LOAD CURRENT</b>	Max. 100 mA (I <sub>e</sub> )
<b>LASER PROTECTION CLASS</b>	None
<b>SHOCK RESISTANCE</b>	30 g, Mechanical, Shock duration 11 ms
<b>OPTICAL SURFACE MATERIAL</b>	Plastic
<b>OUTPUT CURRENT (MA) - MAX</b>	100 mA
<b>OUTPUT CURRENT AT PROTECTED OUTPUT - MAX</b>	0 mA
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	0 V

## Resources

<b>BROCHURES</b>	<a href="#">eaton-sensors-brochure-br053001en-en-us.pdf</a>
<b>CATALOGUES</b>	<a href="#">Product Range Catalog Sensors – products, basic information, applications</a>
<b>DRAWINGS</b>	<a href="#">eaton-proximity-switches-proximity-switch-dimensions-023.eps</a> <a href="#">eaton-proximity-switches-e71-proximity-switch-3d-drawing-002.eps</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL05305006Z</a>
<b>MCAD MODEL</b>	<a href="#">DA-CS-90_28292_001</a> <a href="#">DA-CD-90_28292_001</a>

<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	0 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	30 V
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	10 V
<b>RATED SWITCHING DISTANCE (SN)</b>	2500 mm
<b>REFLECTOR DISTANCE - MIN</b>	0 mm
<b>SENSOR HEIGHT</b>	32 mm
<b>SENSOR LENGTH</b>	20 mm
<b>SWITCHING DISTANCE - MAX</b>	2500 mm
<b>SWITCHING VOLTAGE OF OSSD AT STATE HIGH</b>	30 V
<b>TRANSMISSION RANGE OF THE SAFETY FIELD</b>	0 m
<b>VOLTAGE RATING - MAX</b>	30 V
<b>SAFETY TYPE (IEC 61496-1)</b>	1
<b>SWITCHING FREQUENCY</b>	500 Hz
<b>SENSING MODE</b>	Light-/dark switching
<b>SWITCHING OUTPUT TYPE</b>	PNP
<b>SENSOR MATERIAL</b>	Insulated material
<b>VIBRATION RESISTANCE</b>	10 - 55 Hz, Amplitude 0.5 mm According to IEC/EN 60068-2-6
<b>WAVELENGTH OF THE SENSOR</b>	660 nm
<b>WIDTH SENSOR</b>	12 mm
<b>PRODUCT CATEGORY</b>	E71 NanoView Series
<b>RESPONSE TIME</b>	1 ms
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	55 °C
<b>AMBIENT OPERATING</b>	-25 °C

TEMPERATURE - MIN	
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MIN	-25 °C
DIAMETER SENSOR	0 mm
LIGHT DOT SIZE	0 mm <sup>2</sup>
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
ADJUSTMENT TYPE	Other

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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