

Specifications



Photo is representative

Eaton 100428

Eaton Moeller® series E71 Proximity switch, optical, long range 80cm, 4L, 10-30VDC, PNP, M8

General specifications

PRODUCT NAME	Eaton Moeller® series E71 Proximity switch
CATALOG NUMBER	100428
MODEL CODE	E71-COP-M8
EAN	4015081643127
PRODUCT LENGTH/DEPTH	502.31 mm
PRODUCT HEIGHT	9.91 mm
PRODUCT WIDTH	9.91 mm
PRODUCT WEIGHT	0.09 kg
CERTIFICATIONS	CE CSA-C22.2 No. 14 CSA File No.: UL report applies to both US and Canada UL IEC/EN 60947-5-2 UL 508 Certified by UL for use in Canada UL Category Control No.: NRKH, NRKH7 UL File No.: E166051

Product specifications

TYPE	Optical sensors
ELECTRIC CONNECTION TYPE	Connector M8
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	For combination with reflector Reflected-light beam Detection of transparent objects Short-circuit protection Protection against polarity reversal
VOLTAGE TYPE	DC
CONNECTION TYPE	Plug-in connection M8 x 1 4-wire
LIGHT TYPE	Polarity free red light
DEGREE OF PROTECTION	IP66 NEMA Other
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 (I _e)
LASER PROTECTION CLASS	None
SHOCK RESISTANCE	30 g, Mechanical, Shock duration 11 ms
OPTICAL SURFACE MATERIAL	Plastic
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

Resources

BROCHURES	eaton-sensors-brochure-br053001en-en-us.pdf
DRAWINGS	eaton-proximity-switches-proximity-switch-dimensions-024.eps eaton-proximity-switches-e71-proximity-switch-3d-drawing-002.eps
INSTALLATION INSTRUCTIONS	IL05305006Z
MCAD MODEL	eaton-photoelectric-sensors-mcad-drawings-90-28292-002.dwg DA-CS-90_28292_002

RATED SWITCHING DISTANCE (SN)	800 mm
SENSOR HEIGHT	32 mm
SENSOR LENGTH	20 mm
SWITCHING DISTANCE - MAX	800 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	PNP
SENSOR MATERIAL	Insulated material
VIBRATION RESISTANCE	According to IEC/EN 60068-2-6 10 - 55 Hz, Amplitude 0.5 mm
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 (SEMICONDUCTOR WITH SIGNALING FUNCTION)	1
OPERATING TEMPERATURE - MAX	55 °C
OPERATING	-25 °C

TEMPERATURE - MIN	
ADJUSTMENT TYPE	Other

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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