

Specifications

Eaton 100069

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

General specifications

PRODUCT NAME	Eaton Moeller® series E71 Proximity switch
CATALOG NUMBER	100069
MODEL CODE	E71-CON-CA
EAN	4015081643219
PRODUCT LENGTH/DEPTH	502.31 mm
PRODUCT HEIGHT	18.03 mm
PRODUCT WIDTH	15.24 mm
PRODUCT WEIGHT	0.24 kg
CERTIFICATIONS	UL 508 UL Category Control No.: NRKH, NRKH7 Certified by UL for use in Canada CSA File No.: UL report applies to both US and Canada CSA-C22.2 No. 14 UL File No.: E166051 UL IEC/EN 60947-5-2 CE

Product specifications

TYPE	Optical sensors
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	Short-circuit protection Protection against polarity reversal Reflected-light beam Detection of transparent objects For combination with reflector
VOLTAGE TYPE	DC
CONNECTION TYPE	2 m connection cable 4-wire
LIGHT TYPE	Polarity free red light
DEGREE OF PROTECTION	IP66 NEMA Other
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
SHOCK RESISTANCE	30 g, Mechanical, Shock duration 11 ms
OPTICAL SURFACE MATERIAL	Plastic
OUTPUT CURRENT (MA) - MAX	100 mA
OUTPUT CURRENT AT PROTECTED OUTPUT - MAX	0 mA

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-e71-proximity-switch-3d-drawing-002.eps
INSTALLATION INSTRUCTIONS	IL05305006Z
MCAD MODEL	DA-CD-90 28292 001 DA-CS-90 28292 001

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	30 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	10 V
RATED SWITCHING DISTANCE (SN)	800 mm
REFLECTOR DISTANCE - MIN	0 mm
SENSOR HEIGHT	32 mm
SENSOR LENGTH	20 mm
SWITCHING DISTANCE - MAX	800 mm
SWITCHING VOLTAGE OF OSSD AT STATE HIGH	30 V
TRANSMISSION RANGE OF THE SAFETY FIELD	0 m
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
DIAMETER SENSOR	0 mm
LIGHT DOT SIZE	0 mm ²
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:



Eaton Corporation plc
Eaton House
30 Pembroke Road
Dublin 4, Ireland
Eaton.com

Follow us on social media to get the latest product and support information.

