

Specifications



Eaton 135807

Eaton E52 Cube Series, Inductive proximity sensor, 6 - 48 V DC, 1 N/O, 1 N/C, 4-wire, Plug-in connection M12 x 1, Sn= 20 mm, Non-flush mounting, NPN, Zinc (Insulated)

General specifications

PRODUCT NAME	Eaton E52 inductive proximity sensor
CATALOG NUMBER	135807
MODEL CODE	E52Q-DL20UAD01
EAN	4015081326006
PRODUCT LENGTH/DEPTH	41.28 mm
PRODUCT HEIGHT	79.38 mm
PRODUCT WIDTH	44.45 mm
PRODUCT WEIGHT	0.27 kg
CERTIFICATIONS	CE Certified by UL for use in Canada UL 508 UL IEC/EN 60947-5-2 UL Category Control No.: NRKH, NRKH7 CSA-C22.2 No. 14 CSA File No.: UL report applies to both US and Canada UL File No.: E166051
CATALOG NOTES	Housing adapter



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Product specifications

TYPE	Inductive sensor
ELECTRIC CONNECTION TYPE	Connector M12
ENCLOSURE MATERIAL FINISHING	Other
SURFACE FINISHING	Zinc alloy
ACTUATION TYPE	Metallic Target
ENCLOSURE MATERIAL	Plastic
ENCLOSURE TYPE	Cuboid
CATEGORY (EN 954-1)	B
EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
SAFETY PERFORMANCE LEVEL (EN ISO 13849-1)	None
SIL (IEC 61508)	None
AMBIENT OPERATING TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-40 °C
NUMBER OF CONTACT ENERGIZED OUTPUTS WITH SIGNALLING FUNCTION	0
NUMBER OF CONTACTS (NORMALLY CLOSED CONTACTS)	1
NUMBER OF CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF OUTPUTS (PROTECTED CONTACT ENERGIZED)	0
NUMBER OF OUTPUTS (PROTECTED SEMICONDUCTOR)	0
NUMBER OF OUTPUTS (SEMICONDUCTOR WITH SIGNALING FUNCTION)	1
OPERATIONAL CURRENT (IB) IN THE SWITCHED STATE AT 24 V DC	25 A
FUNCTIONS	Protection against wire breakage Short-circuit protection Protection against polarity reversal
VOLTAGE TYPE	DC

Resources

DECLARATIONS OF CONFORMITY	eaton-inductive-proximity-sensor-declaration-of-conformity-eu251574en.pdf
DRAWINGS	eaton-proximity-switches-e52-proximity-switch-dimensions.eps
INSTALLATION INSTRUCTIONS	IL05301007Z

MOUNTING METHOD	Non-flush mounting
MATERIAL	Zinc (Insulated)
CONNECTION TYPE	Plug-in connection M12 x 1 4-wire
INSTALLATION TYPE	Not flat
DEGREE OF PROTECTION	IP67 NEMA 4X, 6, 13
INTERFACE TYPE	None
LED INDICATOR	Status indication of Operating voltage: Green LED Status indication of Switching state: Red LED
SWITCH FUNCTION TYPE	Anticoincidence
LOAD CURRENT	Max. 300 mA (I _e)
RESIDUAL CURRENT	0.15 mA (through the load in the blocked state at 230 V AC and 24 V DC)
SHOCK RESISTANCE	30 g, Mechanical, Shock duration 11 ms
SWITCHING FREQUENCY	100 Hz
VOLTAGE RATING - MAX	48 V
WIDTH SENSOR	40 mm
PRODUCT CATEGORY	E52 Cube Series
SWITCHING OUTPUT TYPE	NPN
TEMPERATURE DRIFT OF SN	10 %
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	48 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	6 V
RATED SWITCHING DISTANCE (SN) - MAX	20 mm
REPEATABILITY	2 %
SENSOR HEIGHT	40 mm
SENSOR LENGTH	40 mm
SUPPLY VOLTAGE - MAX	48 V
SUPPLY VOLTAGE - MIN	6 V
SWITCHING HYSTERESIS OF SN	15 %
VOLTAGE DROP (UD)	2.5 V

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



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