

Specifications



Eaton 136236

Eaton E56 Pancake Series, Pancake inductive proximity sensor, 6 - 48 V DC, 1 N/O, 1 N/C, Plug-in connection M12 x 1, 4-wire, Sn= 70 mm, Non-flush mounting, NPN, Insulated material

General specifications

PRODUCT NAME	Eaton E56 pancake inductive proximity sensor
CATALOG NUMBER	136236
MODEL CODE	E56BDL70UAD01
EAN	4015081330294
PRODUCT LENGTH/DEPTH	133.35 mm
PRODUCT HEIGHT	101.6 mm
PRODUCT WIDTH	139.7 mm
PRODUCT WEIGHT	0.73 kg
CERTIFICATIONS	UL UL 508 IEC/EN 60947-5-2 Certified by UL for use in Canada CE CSA File No.: UL report applies to both US and Canada UL Category Control No.: NRKH, NRKH7 CSA-C22.2 No. 14 UL File No.: E166051



Powering Business Worldwide

Product specifications

TYPE	Inductive sensor
ELECTRIC CONNECTION TYPE	Plug-in connection
ENCLOSURE MATERIAL FINISHING	Other
SURFACE FINISHING	PPS
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	-25 °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	Short-circuit protection Protection against polarity reversal
VOLTAGE TYPE	DC
MOUNTING METHOD	Non-flush mounting

Resources

DECLARATIONS OF CONFORMITY	eaton-inductive-proximity-sensor-declaration-of-conformity-eu251574en.pdf
DRAWINGS	eaton-proximity-switches-inductive-sensor-e56-proximity-switch-dimensions-002.eps eaton-proximity-switches-e56-proximity-switch-3d-drawing.eps
INSTALLATION INSTRUCTIONS	IL05301008Z

MATERIAL	Insulated material
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	1 - 300 mA (I _e)
RESIDUAL CURRENT	0.15 mA (through the load in the blocked state at 230 V AC and 24 V DC)
SWITCHING FREQUENCY	20 Hz
VOLTAGE RATING - MAX	48 V
WIDTH SENSOR	110 mm
PRODUCT CATEGORY	E56 Pancake 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	70 mm
REPEATABILITY	2 %
SENSOR HEIGHT	41 mm
SENSOR LENGTH	110 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:



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

© 2026 Eaton. All Rights Reserved.

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

