



- German
- English
- Spanish
- French
- Dutch
- Italian
- Polish
- Czech
- Russian
- Norwegian Bokmål

Worldwide English



E52Q-DL20UAD01 - Proximity switch, inductive, 1NO+1NC, Sn=20mm, 4L, 10-48VDC, NPN, PNP, quad.40, insulated material



135807 E52Q-DL20UAD01

[Overview](#) [Specifications](#) [Resources](#)

135807 E52Q-DL20UAD01

Proximity switch, inductive, 1NO+1NC, Sn=20mm, 4L, 10-48VDC, NPN, PNP, quad.40, insulated material
 Alternate Catalog No. E52Q-DL20UAD01

EL-Nummer (Norway)

4315360

Proximity switch, Inductive Sensors, Product range: E52 Cube Series, Description: Housing adapter, Connection: 4-wire, Design (outer dimensions): 40 x 40 x 40 mm, Rated operational voltage: Ue= 10 – 48 V DC, Rated switching distance: Sn= 20 mm, Type of mounting: Non-flush, Switching type: NPN, PNP, Plug-in connection M12 x 1, Contacts N/C = Normally closed: 1 NC, Contacts N/O = Normally open: 1 N/O, Material: Zinc/Insulated material, Degree of Protection: IP67, Standards: IEC/EN 60947-5-2



- Delivery program
- Technical data
- Design verification as per IEC/EN 61439
- Technical data ETIM 7.0
- Approvals
- Dimensions

Delivery program

- Basic function
- Inductive Sensors
- Product range
- E52 Cube Series
- Description
- Housing adapter
- Connection
- 4-wire
- Design (outer dimensions)
- 40 x 40 x 40 mm
- Rated operational voltage [Ue]
- 10 – 48 V DC
- Rated switching distance [Sn]
- 20 mm
- Type of mounting
- Non-flush
- Switching type
- NPN
- PNP
- For connection of:
- Plug-in connection M12 x 1
- Contacts
- N/C = Normally closed
- 1 NC
- N/O = Normally open

1 NO
Material
Zinc/Insulated material
Degree of Protection
IP67

Technical data

General
Standards
IEC/EN 60947-5-2
Ambient temperature
-40 - +70
Mechanical shock resistance
30
Shock duration 11 ms g
Degree of Protection
IP67
Characteristics
Rated switching distanceRated switching distance [S_n]
20 mm
Repetition accuracy of S_n
2 %
Temperature drift of S_n
10 %
Switching hysteresis of S_n
15 %
Rated operational voltage [U_e]
10 – 48 V DC
Maximum load current [I_e]
< 300 mA
Operating current in the switched state at 24 V DC [I_b]
25 mA
Voltage drop at I_e [U_d]
2.5 V
Switching Frequency
100 Hz
Residual current through the load in the blocked state at 230 V AC and 24 V DC [I_r]
0.15 mA
Switching state display
Red LED
Operating voltage display
Green LED
Protective functions
Short-circuit protective device
Protection against polarity reversal
Protection against wire breakage
Connection
4-wire
ContactsNC = Normally closed
1 NC
ContactsNO = Normally open
1 NO
StyleDesign (outer dimensions)
40 x 40 x 40 mm
For connection of:
Plug-in connection M12 x 1
Material
Zinc/Insulated material
Surface finish
Zinc alloy

Design verification as per IEC/EN 61439

Operating ambient temperature min.
-40 °C
Operating ambient temperature max.
+70 °C

Sensors (EG000026) / Inductive proximity switch (EO002714)
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ecl@ss10.0.1-27-27-01-01 [AGZ376015])
Width sensor
40 mm
Height of sensor
40 mm
Length of sensor
40 mm
Diameter sensor
0 mm
Mechanical mounting condition for sensor
Not flat
Switching distance
20 mm
Suitable for safety functions
No
Type of switch function
Anticoincidence
Type of switching output
Other
Type of electric connection
Connector M12
Number of semiconductor outputs with signalling function
1
Number of contact energized outputs with signalling function
0
Number of protected semiconductor outputs
0
Number of protected contact energized outputs
0
Type of actuation
Metallic Target
Type of interface
None
Type of interface for safety communication
None
Construction type housing
Cuboid
Coating housing
Other
Cascadable
No
Category according to EN 954-1
B
SIL according to IEC 61508
None
Performance level acc. EN ISO 13849-1
None
Max. output current at protected output
0 mA
Supply voltage
6 - 48 V
Rated control supply voltage Us at AC 50Hz
0 - 0 V
Rated control supply voltage Us at AC 60Hz
0 - 0 V
Rated control supply voltage Us at DC
6 - 48 V
Voltage type
DC
Switching frequency
100 Hz
With monitoring function downstream switching devices
No
Material housing
Plastic
Compression-resistant

No
Explosion safety category for gas
None
Explosion safety category for dust
None
Interference resistance to magnetic fields

Approvals

Product Standards
UL 508; CSA-C22.2 No. 14; IEC60947-5-2; CE marking
UL File No.
E166051
UL Category Control No.
NRKH, NRKH7
CSA File No.
UL report applies to both Canada and US
CSA Class No.
—
North America Certification
UL listed, certified by UL for use in Canada
Max. Voltage Rating
48 V DC
Degree of Protection
IEC: IP68; UL Type 4, 4X, 6, 6P, 12, 13

Dimensions



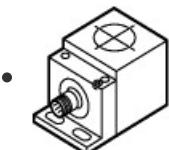
Product photo



1360PC-8

Photo

3D drawing



1360DRW-39

Line drawing

Dimensions single product



1360DIM-313

Line drawing

Instruction Leaflet

- Inductive sensors: Cube Series (IL05301007Z)
Asset
(PDF, multilingual)

Declaration of Conformity

- [Inductive Proximity Sensor, E52 \(Cube\) and E56 \(Pancake\) \(DA-DC-00002423\)
Asset
\(PDF\)](#)

Download-Center

- [Download-Center \(this item\)](#)
Eaton EMEA Download-Center - download data for this item
- [Download-Center](#)
Eaton EMEA Download-Center



[Generate data sheet in PDF format](#)



[Generate data sheet in Excel format](#)



[Write a comment](#)

[Imprint](#) [Privacy Policy](#) [Legal Disclaimer](#) [Terms and Conditions](#)

© 2021 by Eaton Industries GmbH