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Worldwide English



E52Q-DL20UAD01 - Proximity switch, inductive, 1N/O+1N/C, Sn=20mm, 4L, 10-48VDC, NPN, PNP, quad.40, insulated material



135807 E52Q-DL20UAD01

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## 135807 E52Q-DL20UAD01

Proximity switch, inductive, 1N/O+1N/C, 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:  $U_e = 10 - 48$  V DC, Rated switching distance:  $S_n = 20$  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

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### 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 [ $U_e$ ]

10 – 48 V DC

Rated switching distance [ $S_n$ ]

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 distance Rated 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 [ $U_b$ ]  
10 – 48 V DC  
Maximum load current [ $I_b$ ]  
< 300 mA  
Operating current in the switched state at 24 V DC [ $I_b$ ]  
25 mA  
Voltage drop at  $I_b$  [ $U_d$ ]  
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  
Contacts NC = Normally closed  
1 NC  
Contacts NO = Normally open  
1 NO  
Style Design (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

## Technical data Entry 1.0

Sensors (EG000026) / Inductive proximity switch (EC002714)  
 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  $U_s$  at AC 50HZ  
 0 - 0 V  
 Rated control supply voltage  $U_s$  at AC 60HZ  
 0 - 0 V  
 Rated control supply voltage  $U_s$  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

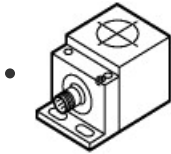


## Product photo



1360PIC-8  
Photo

## 3D drawing



1360DRV-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)

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