



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

EATON
Powering Business Worldwide™

Part no. E52Q-DL20UAD01
Catalog No. 135807
Alternate Catalog No. E52Q-DL20UAD01
EL-Nummer (Norway) 0004315360

Delivery program

Basic function			Inductive Sensors
Product range			E52 Cube Series
Description			Housing adapter
Connection			4-wire
Design (outer dimensions)		mm	40 x 40 x 40
Rated operational voltage	U _e		10 – 48 V DC
Rated switching distance	S _n	mm	20
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 N/O
Material			Zinc/Insulated material
Degree of Protection			IP67

Technical data

Standards			IEC/EN 60947-5-2
Ambient temperature			-40 - +70
Mechanical shock resistance	g		30 Shock duration 11 ms
Degree of Protection			IP67

Characteristics

Rated switching distance			
Rated switching distance	S _n	mm	20
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	mA	< 300
Operating current in the switched state at 24 V DC	I _b	mA	25
Voltage drop at I _e	U _d	V	2.5
Switching Frequency		Hz	100
Residual current through the load in the blocked state at 230 V AC and 24 V DC	I _r	mA	0.15
Switching state display		LED	Red
Operating voltage display		LED	Green
Protective functions			Short-circuit protective device Protection against polarity reversal Protection against wire breakage
Connection			4-wire
Contacts			
N/C = Normally closed			1 NC
N/O = Normally open			1 N/O
Style			

Design (outer dimensions)	mm	40 x 40 x 40
For connection of:		Plug-in connection M12 x 1
Material		Zinc/Insulated material
Surface finish		Zinc alloy

Design verification as per IEC/EN 61439

Technical data for design verification		
Operating ambient temperature min.	°C	-40
Operating ambient temperature max.	°C	70

Technical data ETIM 7.0

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@ss10.0.1-27-01-01 [AGZ376015])		
Width sensor	mm	40
Height of sensor	mm	40
Length of sensor	mm	40
Diameter sensor	mm	0
Mechanical mounting condition for sensor		Not flat
Switching distance	mm	20
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	mA	0
Supply voltage	V	6 - 48
Rated control supply voltage Us at AC 50HZ	V	0 - 0
Rated control supply voltage Us at AC 60HZ	V	0 - 0
Rated control supply voltage Us at DC	V	6 - 48
Voltage type		DC
Switching frequency	Hz	100
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.

CSA Class No.

North America Certification

Max. Voltage Rating

Degree of Protection

UL report applies to both Canada and US

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UL listed, certified by UL for use in Canada

48 V DC

IEC: IP68; UL Type 4, 4X, 6, 6P, 12, 13

Dimensions

