



Proximity switch, inductive, 1N/O+1N/C, $S_n=20\text{mm}$, 4L, 10-48VDC, NPN, PNP, quad.40, insulated material

Part no. **E52Q-DL20SAD01**
Catalog No. **135806**
Alternate Catalog No. **E52Q-DL20SAD01**
EL-Nummer (Norway) **0004315359**

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			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

General

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 (ecI@ss10.0.1-27-27-01-01 [AGZ376015])			
Width sensor		mm	40
Height of sensor		mm	40
Length of sensor		mm	40
Diameter sensor		mm	0
Mechanical mounting condition for sensor			Concise
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.		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

