DATASHEET - E52Q-DL15UAD01



Proximity switch, inductive, 1N/0+1N/C, Sn=15mm, 4L, 10-48VDC, NPN, PNP, quad.40, insulated material



Part no. E52Q-DL15UAD01 Catalog No. 135805

Alternate Catalog

E52Q-DL15UAD01

No.

EL-Nummer 0004315358

(Norway)

Delivery program

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	15
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

General

Ambient temperature Mechanical shock resistance Mechanical shock resistance Mechanical shock resistance Mechanical shock resistance Pergree of Protection Characteristics Rated switching distance				
Mechanical shock resistance Pergree of Protaction Characteristics Rated switching distance Rated switching distance Repetition accuracy of S _n Reperature drift of S _n Switching hysteresis of S _n Value of Protaction Switching hysteresis of S _n Rated operational voltage We will be state at 24 V DC We will be state at 24	Standards			IEC/EN 60947-5-2
Degree of Protection Characteristics Rated switching distance Rated switching frequestion al voltage Maximum load current Ue Ue To -48 V DC To	Ambient temperature			-40 - +70
Characteristics Rated switching distance Rated switching fixed science of Sn Rated switching distance Rated switching distance Rated switching fixed science of Sn Rated science of Sn Rated switching distance Rated science of Sn Rated switching distance Rated science of Sn Rated science	Mechanical shock resistance		g	
Asted switching distance Repetition accuracy of Sn Repetition accurac	Degree of Protection			IP67
Rated switching distance Repetition accuracy of Sn Repetition Sn Reptition Sn Repetition Sn Repetition Sn Repetition Sn Reptition Sn Repetition Sn Reptition Sn Reptit	Characteristics			
Repetition accuracy of S _n Remerature drift of S _n Switching hysteresis of S _n Rated operational voltage Maximum load current Departing current in the switched state at 24 V DC Voltage drop at I _e Voltage drop at I _e Voltage drop at I _e Switching Frequency Residual current through the load in the blocked state at 230 V AC and 24 V DC Pertective functions Protective functions N/C = Normally closed N/C = Normally closed N/C = Normally open	Rated switching distance			
Temperature drift of Sn Switching hysteresis of Sn Switching hysteresis of Sn Sated operational voltage Ve Maximum load current Voltage drop at I _e Voltag	Rated switching distance	S_n	mm	15
Switching hysteresis of S _n Rated operational voltage Ve Maximum load current Ue Ue Maximum load current Ue	Repetition accuracy of S_n		%	2
Rated operational voltage Waximum load current Ie mA <300 Operating current in the switched state at 24 V DC Ib mA 25 Voltage drop at Ie Voltage display Voltage drop at Ie Voltag	Temperature drift of S_n		%	10
Maximum load current Naximum load current Naximum load current Naximum load current Naximum load current Notage drop at l _e Nota	Switching hysteresis of S_n		%	15
Deperating current in the switched state at 24 V DC Ib mA 25 Switching Frequency Residual current through the load in the blocked state at 230 V AC and 24 V DC Residual current through the load in the blocked state at 230 V AC and 24 V DC Deperating voltage display Protective functions Connection N/C = Normally closed N/O = Normally open	Rated operational voltage	U _e		10 – 48 V DC
Voltage drop at I _e Voltage drop at I _e Voltage drop at I _e Switching Frequency Residual current through the load in the blocked state at 230 V AC and 24 V DC Residual current through the load in the blocked state at 230 V AC and 24 V DC I _r MA 0.15 Red Departing voltage display LED Red Connection Short-circuit protective device Protection against polarity reversal Protection against polarity reversal Protection against wire breakage 4-wire N/C = Normally closed N/O = Normally open 1 N/O 1 N/O	Maximum load current	l _e	mA	< 300
Switching Frequency Residual current through the load in the blocked state at 230 V AC and 24 V DC Residual current through the load in the blocked state at 230 V AC and 24 V DC LED Red Departing voltage display LED Green Protective functions Short-circuit protective device Protection against polarity reversal Protection against wire breakage Connection Contacts N/C = Normally closed N/O = Normally open Hz 100 100 11 NC 11 NC 11 N/O	Operating current in the switched state at 24 V DC	lb	mA	25
Residual current through the load in the blocked state at 230 V AC and 24 V DC Switching state display LED Red Deparating voltage display LED Short-circuit protective device Protective functions Short-circuit protective device Protection against polarity reversal Protection against wire breakage 4-wire Contacts N/C = Normally closed N/O = Normally open 1 N/O	Voltage drop at I _e	U_{d}	V	2.5
Switching state display LED Red Operating voltage display Protective functions Short-circuit protective device Protection against polarity reversal Protection against wire breakage Connection A-wire N/C = Normally closed N/O = Normally open LED Red A ed I NC 1 N/O	Switching Frequency		Hz	100
Deparating voltage display LED Green Short-circuit protective device Protection against polarity reversal Protection against wire breakage Connection A-wire N/C = Normally closed N/O = Normally open LED Green Short-circuit protective device Protection against polarity reversal Protection against wire breakage 4-wire 1 NC 1 N/O	Residual current through the load in the blocked state at 230 V AC and 24 V DC $$	I _r	mA	0.15
Protective functions Short-circuit protective device Protection against polarity reversal Protection against wire breakage 4-wire Contacts N/C = Normally closed N/O = Normally open Short-circuit protective device Protection against wire breakage 4-wire 1 NC 1 N/O	Switching state display		LED	Red
Protection against polarity reversal Protection against wire breakage Connection 4-wire Contacts N/C = Normally closed 1 NC 1 N/O = Normally open 1 N/O	Operating voltage display		LED	Green
Contacts 1 NC N/C = Normally closed 1 NC N/O = Normally open 1 N/O	Protective functions			Protection against polarity reversal
N/C = Normally closed 1 NC N/O = Normally open 1 N/O	Connection			4-wire
N/O = Normally open 1 N/O	Contacts			
	N/C = Normally closed			1 NC
Style	N/O = Normally open			1 N/0
	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

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@ss10.0.1-27-27-01-01 [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	15
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			В
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

