



Proximity switch, inductive, 1N/O, $S_n=29\text{mm}$, 4L, 6-48VDC, NPN, PNP, M30, metal

Part no. E59-M30C129D01-D1
Catalog No. 136227
Alternate Catalog No. E59-M30C129D01-D1

Delivery program

Basic function			Inductive Sensors
Product range			iProx Series
Connection			3-wire
Design (outer dimensions)		mm	M30 x 1.5
Rated operational voltage	U_e		6 - 48 V DC
Rated switching distance	S_n	mm	29
Type of mounting			Non-flush
Switching type			NPN PNP
For connection of:			Plug-in connection M12 x 1
Contacts			
N/O = Normally open			1 N/O
Material			Stainless steel
Degree of Protection			IP67, IP69

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, IP69

Characteristics

Rated switching distance			
Rated switching distance	S_n	mm	29
Repetition accuracy of S_n		%	3
Temperature drift of S_n		%	10
Switching hysteresis of S_n		%	15
Rated operational voltage	U_e		6 - 48 V DC
Maximum load current	I_e	mA	< 300
Operating current in the switched state at 24 V DC	I_b	mA	15
Voltage drop at I_e	U_d	V	2.5
Switching Frequency		Hz	145
Min. load current	I_e	mA	1
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			3-wire
Contacts			
N/O = Normally open			1 N/O
Style			
Design (outer dimensions)		mm	M30 x 1.5
For connection of:			Plug-in connection M12 x 1

Material		Stainless steel
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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

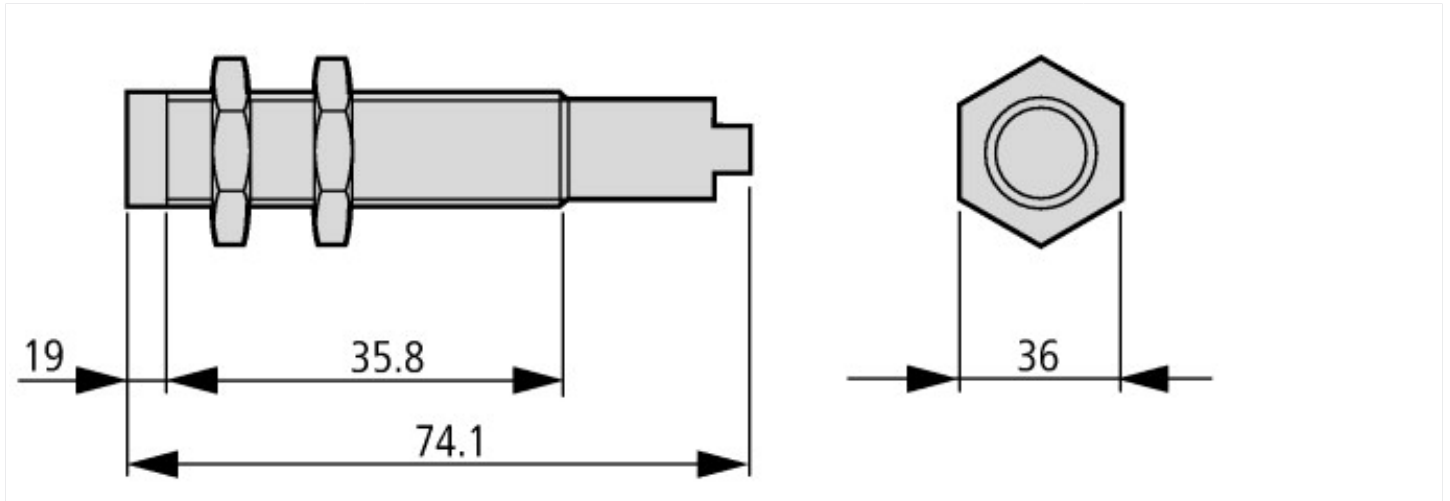
Sensors (EG000026) / Inductive proximity switch (EC002714)		
Electric engineering, automation, process control engineering / Binary sensor technology, safety-related sensor technology / Proximity switch / Inductive proximity switch (ecl@ss10.0.1-27-27-01-01 [AGZ376015])		
Width sensor	mm	0
Height of sensor	mm	0
Length of sensor	mm	74
Diameter sensor	mm	30
Mechanical mounting condition for sensor		Not flat
Switching distance	mm	29
Suitable for safety functions		No
Type of switch function		Normally open contact
Type of switching output		PNP/NPN
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		Cylinder, screw-thread
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	145
With monitoring function downstream switching devices		No
Material housing		Metal
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: IP67, IP69K; UL/CSA Type: 4, 4x, 6, 6P, 12, 13

Dimensions



Additional product information (links)

IL05301004Z iProx Series Inductive Sensors

IL05301004Z iProx Series Inductive Sensors https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL05301004Z2018_05.pdf