

# Proximity switch, inductive, 1N/O, Sn=8mm, 2L, 20-250VAC, M18, metal, M12



Part no. E57RAL18A2EA Article no. 136068 Catalog No. E57RAL18A2EA

# **Delivery programme**

Product range Connection Connection Consign (outer dimensions) Contacts  N/O = Normally open  E57 Premium+ Series  E57 Premium+ Series  2-wire  Mm M18 x 1  20 - 250 V AC  Rated operational voltage  Non-flush Plug-in connection M12 x 1  Type of mounting  Non-flush Plug-in connection M12 x 1  Type of mounting  Non-flush Plug-in connection M12 x 1  Type of mounting  Stainless steel	, i o			
Connection  Connection  Connection  Connection  Contacts  Connection  Connection  Connection  Connection  Connection  Connection  Contacts  Contac	Basic function			Inductive Sensors
Design (outer dimensions)  Rated operational voltage  Ue  20 - 250 V AC  Rated switching distance  Sn mm 8  Non-flush For connection of:  Plug-in connection M12 x 1  Contacts  N/0 = Normally open  Material  M18 x 1  10 - 250 V AC  Non-flush Non-flush Non-flush Plug-in connection M12 x 1  1 N/0  Stainless steel	Product range			E57 Premium+ Series
Rated operational voltage  Rated switching distance  Sn mm 8  Non-flush  For connection of:  N/O = Normally open  Material  Ue 20 - 250 V AC  Non-flush  Non-flush  Plug-in connection M12 x 1  Stainless steel	Connection			2-wire
Flated switching distance  Sn mm 8  Non-flush Plug-in connection M12 x 1  Contacts  N/0 = Normally open  Material  Sn mm 8  Non-flush Plug-in connection M12 x 1  1 N/0  Stainless steel	Design (outer dimensions)		mm	M18 x 1
Type of mounting  Non-flush For connection of:  Plug-in connection M12 x 1  Contacts  N/O = Normally open  Non-flush  Plug-in connection M12 x 1  Stainless steel	Rated operational voltage	U <sub>e</sub>		20 - 250 V AC
For connection of:  Contacts  N/0 = Normally open  Naterial  Plug-in connection M12 x 1  Plug-in connection M12 x 1  Plug-in connection M12 x 1  Stainless steel	Rated switching distance	$S_{n}$	mm	8
Contacts N/0 = Normally open 1 N/0 Material Stainless steel	Type of mounting			Non-flush
N/O = Normally open 1 N/O Material Stainless steel	For connection of:			Plug-in connection M12 x 1
Material Stainless steel	Contacts			
	N/O = Normally open			1 N/O
Degree of Protection IP67	Material			Stainless steel
	Degree of Protection			IP67

IEC/EN 60947-5-2

#### **Technical data**

#### **General** Standards

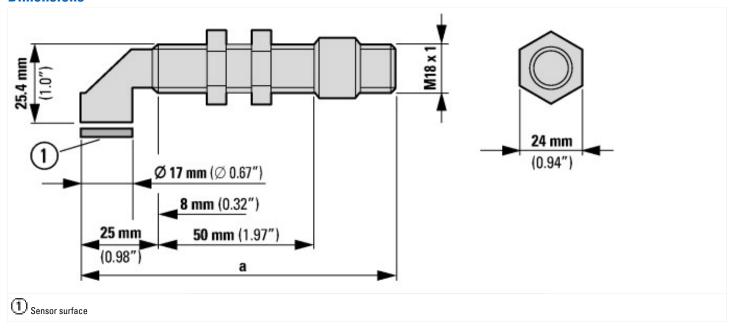
Ambient temperature			-25 - +70
Mechanical shock resistance		g	30 Shock duration 11 ms
Degree of Protection			IP67
Characteristics			
Rated switching distance			
Rated switching distance	$S_{n}$	mm	8
Repetition accuracy of $S_n$		%	3
Temperature drift of $S_n$		%	10
Switching hysteresis of $S_n$		%	20
Rated operational voltage	U <sub>e</sub>		20 - 250 V AC
Operating current in the switched state at 24 V DC	I <sub>b</sub>	mA	10
Maximum load current	l <sub>e</sub>	mA	< 500 (25 °C) / 250 (70 °C)
Voltage drop at I <sub>e</sub>	$U_{d}$	V	2.5
Switching Frequency		Hz	20
Min. load current	l <sub>e</sub>	mA	1
Residual current through the load in the blocked state at 230 V AC and 24 V DC $$	I <sub>r</sub>	mA	0.1
Switching state display		LED	Red
Connection			2-wire
Contacts			
N/O = Normally open			1 N/0
Style			
Design (outer dimensions)		mm	M18 x 1
For connection of:			Plug-in connection M12 x 1
Material			Stainless steel

## **Design verification as per IEC/EN 61439**

Technical data for design verification		
Operating ambient temperature min.	°C	-25
Operating ambient temperature max.	°C	70

Approvals	
Product Standards	UL 508; IEC60947-5-2; CE marking
UL File No.	E166051
UL Category Control No.	NRKH, NRKH7
North America Certification	UL listed
Max. Voltage Rating	250 V AC
Degree of Protection	IEC: IP67, IP69K: UL/CSA Tyne: 4, 4x, 6, 6P, 12, 13

### **Dimensions**



# **Additional product information (links)**

IL05301003Z Premium Plus Series Inductive Sensors +Short, +Miniature

IL05301003Z Premium Plus Series Inductive Sensors +Short, +Miniature ftp://ftp.moeller.net/DOCUMENTATION/AWA\_INSTRUCTIONS/IL05301003Z2013\_02.pdf