

Z-PROX INDUCTIVE PROXIMITY SENSOR

DATA SHEET

06-04-2021

MANUFACTURING PART #

WSI-1810-SAAZ

DIAMETER M18

SENSING RANGE

MOUNTING

embeddable

Z-PROX - DESIGNED FOR WELD CELLS

- F1 SENSING PERFORMANCE
- HIGH DURABILITY
- ACTIVSTONE ZG SPATTER RESISTANT COATING





Weld-immune full-metal sensor with long operating distance

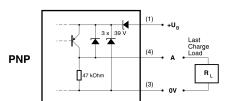
Main features:

- Long operating distance: 10 mm on steel and aluminum
- Full Stainless Steel Construction:
 Face/Body/Threads/Connector
- Resistant to 50 Hz magnetic fields up to 40 mT
- Extremely robust: one-piece stainless steel housing and sensing face
- F1 (Factor 1) Sensing all metals
- ACTIVSTONE ZG Zirconium Graphite weld-spatter resistant coating

CE

		CE
•	Technical data:	
	(according to IEC 60947-5-2)	
	Rated operating distance s _n	10 mm
	Hysteresis	≤ 15 % s _r
	Standard target	30 x 30 x 1 mm, FE 360
	Repeat accuracy	0,5 mm (U _B = 20 30 VDC,
		$T_A = 23 ^{\circ}\text{C} \pm 5 ^{\circ}\text{C}$
	Supply voltage range U _B	10 30 VDC
Compatible with mount #WMT-18MM-FXXH	Max. ripple content	≤ 20% U _B
	Output current	≤ 200 mÅ
	Output voltage drop	≤ 2,0 V bei / à / at 200 mA
	No-load supply current	≤ 10 mA
	Leakage current	≤ 0,1 mA
	Switching frequency	≤ 15 Hz
	Time delay before availability	≤ 50 ms
	LED (0 s _r)	an / allumée / on
	Ambient temperature range T _A	-25 + 85 °C
	Temperature drift of s _r	≤ 10%
	Pressure resistance in "P" area	60 bar max.
	Short-circuit protection	eingebaut / intégrée / built-in
	Voltage reversal protection	eingebaut / intégrée / built-in
	Induction protection	eingebaut / intégrée / built-in
	Shocks and vibration	IEC 60947-5-2 / 7.4
	Cable length	300 m max.
	Weight	54 g
	Degree of protection	IP 68 & IP 69K
	EMC protection: IEC 60947-5-2 (7.2.3.1)	5 kV
	IEC 61000-4-2	Level 4
	IEC 61000-4-3	Level 3
	IEC 61000-4-4	Level 3
	Housing and sensing face material	Edelstahl / acier inox / stainles steel (V2A / 1.4305 / AISI 303
	Sensing face thickness	0,6 mm
	Connection	S12

Wiring diagram WSI-1810-SAAZ

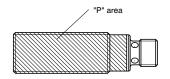


Pin assignment (view onto device)

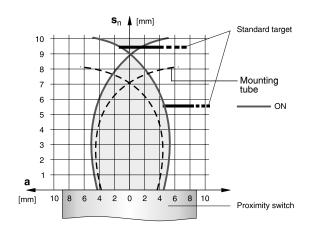




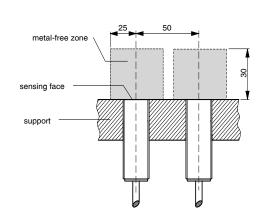
Dimensions: WSI-1810-SAAZ



Response diagram*:



Installation (Fig. 1):



* typical values

Correction factors for target of*:

Steel FE 360 1.0 copper 0.85 aluminum 1.0 brass 1.3 stainless steel 1mm / 2mm thick 0.4 / 0.8

Correction factors for embeddable mounting (Fig. 1) in support of*:

Steel FE 360 0.7 aluminum 0.7 brass 0.55 stainless steel 0.65 Mounting Tube 0.75

Available types:

part number	polarity	connection	output
WSI-1810-SAAZ	PNP	connector M12	N.O.

APPLICATION NOTE

- Product not intended for safety applications.
- Operators of the product are responsible for compliance with measures relating to the protections of persons, equipment, electrical standards and environmental regulations.

