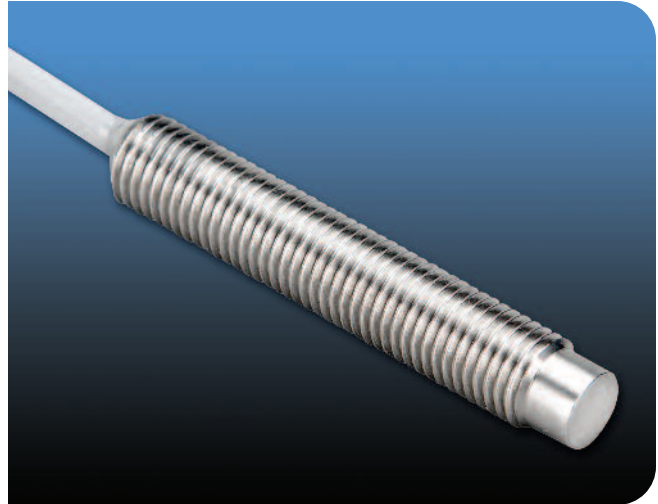


871TM All Stainless Steel Inductive Proximity Sensors

New 8mm diameter units with 3mm and 6mm sensing range

Rockwell Automation continues to introduce new Allen-Bradley sensing products that help make your applications simpler while addressing the market's ever changing needs. From proximity sensors, limit switches and photoelectric sensors, to condition sensors, encoders, Error Proofing solutions and a full complement of connectivity products, Rockwell Automation is your single source to consolidate products to one reliable vendor.

The most recent additions to our industry-leading 871TM all stainless steel family of inductive proximity sensors are 3-wire DC Extended Range models with 8mm diameter and 3mm (shielded) or 6mm (unshielded) sensing range.



Extended range and all-metal sensing in a rugged, compact package

In addition to providing significantly longer sensing range, these new 871TM sensors were designed to sense all metals at the fully rated sensing distance of the sensor. Traditional inductive sensors require the user to dramatically de-rate the sensing distance depending on the target material you are attempting to detect.

Allen-Bradley 871TM proximity sensors are known throughout the industry for their proven performance in demanding applications, and these new 8mm models are no exception. Like all other sensors in the 871TM extended range family, the new 8mm models are designed in a rugged single-piece stainless steel housing that makes the front of the sensor leak proof while

significantly improving resistance to chemicals, cutting fluids, oils and abrasion. Mechanical seals are provided at all barrel openings. The circuitry is also equipped with the full range of electrical protection – false pulse, short circuit, reverse polarity and transient noise – making these new 871TM sensors an electrically and mechanically sound choice for a broad range of harsh industrial environments.

For additional application flexibility, these new 8mm 871TM sensors are available with 2 meter PUR cable, 3-pin Pico QD or 4-pin Micro QD connection options with Normally Open or Normally Closed PNP or NPN outputs.

Features

- 3-Wire operation
- 2 Meter 3-conductor PUR cable, 4-pin Pico or 4-pin Micro connection options
- 10-30V DC

- Normally Open or Normally Closed versions
- Shielded 3mm Sensing Distance
- Unshielded 6mm Sensing Distance
- Rugged single-piece stainless steel housing construction
- IP67 Enclosure rating
- Short circuit, false pulse, reverse polarity and transient noise protection
- cULus listed and CE marked for applicable directives

Benefits

- Rugged housing withstands harsh environment applications
- Extended sensing range allows users to place sensor further away from target, reducing the risk of sensor failure due to impact
- Equal sensing ability allows for detection of most metals at the fully rated sensing distance (no need to de-rate the sensing distance based on target material)

LISTEN.
THINK.
SOLVE.™

General Ordering Information

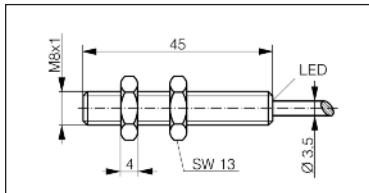
871TM All Stainless Steel, 8mm diameter sensors

Sensing Distance	Shielded	Output Configuration		Connections	Catalog Number	
3mm	Y	NPN	N.O.	2m PUR Cable	871TM-M3NN8-J2	
			N.C.		871TM-M3CN8-J2	
			N.O.		871TM-M3NP8-J2	
			N.C.		871TM-M3CP8-J2	
		NPN	N.O.	3-pin Pico	871TM-M3NN8-P3	
					N.C.	871TM-M3CN8-P3
					N.O.	871TM-M3NP8-P3
					N.C.	871TM-M3CP8-P3
		NPN	N.O.	4-pin Micro	871TM-M3NN8-D4	
					N.C.	871TM-M3CN8-D4
					N.O.	871TM-M3NP8-D4
					N.C.	871TM-M3CP8-D4
6mm	N	NPN	N.O.	2m PUR Cable	871TM-N6NN8-J2	
			N.C.		871TM-N6CN8-J2	
			N.O.		871TM-N6NP8-J2	
			N.C.		871TM-N6CP8-J2	
		NPN	N.O.	3-pin Pico	871TM-N6NN8-P3	
					N.C.	871TM-N6CN8-P3
					N.O.	871TM-N6NP8-P3
					N.C.	871TM-N6CP8-P3
		NPN	N.O.	4-pin Micro	871TM-N6NN8-D4	
					N.C.	871TM-N6CN8-D4
					N.O.	871TM-N6NP8-D4
					N.C.	871TM-N6CP8-D4

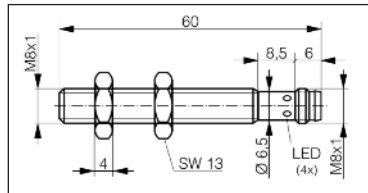
871TM All Stainless Steel Correction Factors

	Steel FE 360	Copper	Aluminum	Brass	Stainless Steel 1mm/2mm thick
3mm Shielded Mounted not embedded	1.0	0.9	1.0	1.35	0.3/.06
3mm Shielded Mounted embedded	1.0	0.9	0.9	0.9	1.0
6mm Unshielded	1.0	0.85	1.0	1.4	0.3/0.9

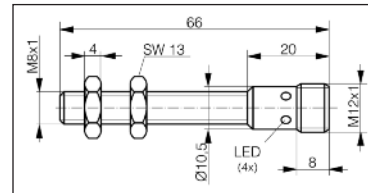
871TM All Stainless Steel Dimensions (mm)



Cable Version



Pico QD Version



Micro QD Version

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