



Twice as good: inductive sensors with analogue output and IO-Link.



Inductive sensors



High-precision distance measurement for early diagnosis of mechanical changes.

Distance measurement and switch using only one unit.

- Flexible use due to adaptable output range.
- Measured value transmission without any loss via IO-Link.
- More functionality with full compatibility using standard input devices.













Prepared for plant retrofit

The new inductive analogue sensors are fully compatible for use in existing plants. A wide range of functions and information are provided additionally via IO-Link.

Increased measurement accuracy with IO-Link

On the one hand, conversion losses or electromagnetic interference are avoided thanks to digital communication. On the other hand, the detection range of the sensor is freely scalable via IO-Link – allowing also adjustment of the switch-on curve. Thus, the resolution can be specifically maximised whenever tiny changes in distance, for example caused by first stages of wear, need to be detected quickly. When connected to an ERP, the digital data can be used to implement automated, demand-based maintenance.

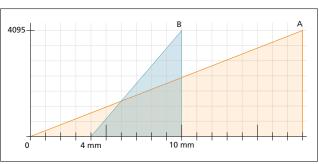


Туре	Total length	Measuring range	Installation	Output signal	Protection rating	Order no.		
	[mm]	[mm]						
M12 connector · analogue output programmable/ IO-Link								
M12	70	0.22	flush	420 mA	IP 65IP 69K	IF6028		
M12	70	0.22	flush	010 V	IP 65IP 69K	IF6029		
M12	70	0.44	non flush	420 mA	IP 65IP 69K	IF6030		
M12	70	0.44	non flush	010 V	IP 65IP 69K	IF6031		
M18	60	0.88	non flush	420 mA	IP 65IP 69K	IG6083		
M18	60	0.88	non flush	010 V	IP 65IP 69K	IG6084		
M18	60	0.55	flush	420 mA	IP 65IP 69K	IG6086		
M18	60	0.55	flush	010 V	IP 65IP 69K	IG6087		
M30	65	115	non flush	420 mA	IP 65IP 69K	116913		
M30	65	115	non flush	010 V	IP 65IP 69K	II5914		
M30	65	110	flush	010 V	IP 65IP 69K	115917		
rectangular	40 x 40 x 54	115	flush	420 mA	IP 67	IM5139		
rectangular	40 x 40 x 54	115	flush	010 V	IP 67	IM5140		
rectangular	40 x 40 x 54	126	non flush	420 mA	IP 67	IM5141		
rectangular	40 x 40 x 54	126	non flush	010 V	IP 67	IM5142		
rectangular	40 x 40 x 54	335	non flush	010 V	IP 67	IM5143		
rectangular	40 x 40 x 54	335	non flush	010 V	IP 67	IM5175		

Accessories

	Туре	Description	Order no.	
	Installation			
		Angle bracket for M12 design, stainless steel	E10735	
		Angle bracket for M18 design, stainless steel	E10736	
		Angle bracket for M30 design, stainless steel	E10737	
	IO-Link			
hout prior notice. · 04.2021		1-port IO-Link master (connects IO-Link sensors to the PC via USB)	AL1060	
		Memory plug, parameter memory for IO-Link sensors	E30398	
	e)(e e)(e e)(e e)(e e)(e	IO-Link master EtherNet/IP, 4-port	AL1320	
echnical alterations wi	moneo configure	moneo configure SA (Stand-alone) licence, software for online and offline parameter setting of IO-Link devices including maintenance and support until the end of the following year	QMP010	
We reserve the right to make technical alterations without prior notice. \cdot 04.2021	ifm – c	lose to you!		

Focus area with highest resolution



A = detection zone, B = focus zone

In the case of measuring sensors, the 4096 measuring points (i.e. the resolution) extend over the entire detection zone (A).

With the new analogue sensors, however, this resolution can be (e.g.) specifically maximised in any focus zone where minimal changes in distance need to be detected quickly.

For this purpose, all available 4096 measuring points are "placed" in the particular zone to be considered.

In present example, this results in the highest possible resolution of 628 measuring points per mm. This precise measurement accuracy not only increases process reliability, but can also prevent rejects, thus allowing substantial savings.