



Position sensors

Inductive sensors take a leap forward



Inductive sensors



Precise position monitoring

Digital transmission of target distance

High linearity and repeatability

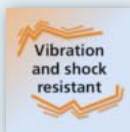
High IP 69K and wide temperature range

Function and polarity selectable via IO-Link

IP 67
IP 68
IP 69 K



Temperature range
-40...+85°C



Much more than just a pulse pick-up!

ifm's new inductive sensors with IO-Link incorporate several functions in one unit. They can be used as switching sensors with an adjustable switch point or measuring systems with a measured value transmitted via IO-Link. The output signal can be set to NC or NO and PNP or NPN allowing many possible combinations. This keeps the number of different types down, reducing the cost of stock.

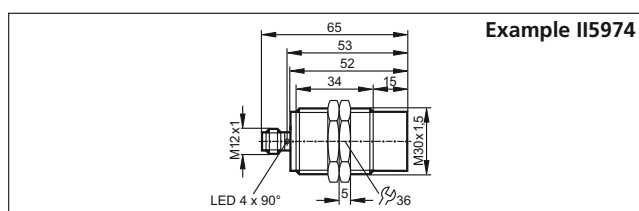
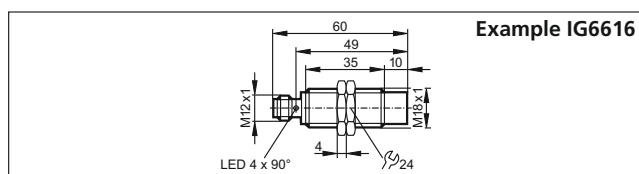
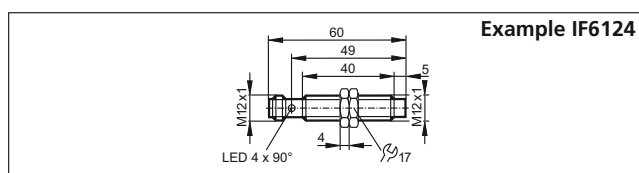
Highest precision

The new sensors are so precise that they detect even minute changes. Even the true run of a spindle or the tension of a saw blade is reliably detected. An alarm can be set if the target leaves the detection zone or comes too close to the sensing face. All data acquired can be transmitted via IO-Link and recorded. This new development is unbeatable.



Type	Dimensions [mm]	Detection zone [mm]	Installation	Ambient temperature [°C]	Protection rating	f [Hz]	Housing material	Order no.
M12 connector- 3-wire DC								
M12	60	0.375...3.75	flush	-40...85	IP 65, IP 66, IP 67, IP 68, IP 69K	600	coated brass	IF6123
M12	60	0.7...7	non flush	-40...85	IP 65, IP 66, IP 67, IP 68, IP 69K	600	coated brass	IF6124
M18	60	0.75...7.5	flush	-40...85	IP 65, IP 66, IP 67, IP 68, IP 69K	300	coated brass	IG6615
M18	60	1.3...13	non flush	-40...85	IP 65, IP 66, IP 67, IP 68, IP 69K	300	coated brass	IG6616
M30	65	1.3...13	flush	-40...85	IP 65, IP 66, IP 67, IP 68, IP 69K	100	coated brass	I15973
M30	65	2.3...23	non flush	-40...85	IP 65, IP 66, IP 67, IP 68, IP 69K	100	coated brass	I15974
Rectangular	40 x 40	2.1...21	flush	-25...80	IP 67	100	PA	IM5172
Rectangular	40 x 40	2.6...26	non flush	-25...80	IP 67	100	PA	IM5173

Dimensions



Further technical data

Electrical design	DC PNP / NPN can be set via IO-Link	
Output function	Normally open / normally closed can be set via IO-Link	
Operating voltage	[V DC]	10...30
Current rating	[mA]	100
Reverse polarity protection	•	
Short-circuit protection	•	
Protection class	III	
Switching status indication	[LED]	yellow
IO-Link	V1.1; COM2; 3 ms cycle time; smart sensor profiles; single point mode; two point mode; window mode	

Accessories

Connection technology

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC001
	Socket, M12, 5 m black, PUR cable	EVC002
	Socket, M12, 2 m black, PUR cable	EVC004
	Socket, M12, 5 m black, PUR cable	EVC005

Type	Description	Order no.
	Angle bracket for type M12, stainless steel	E10735
	Angle bracket for type M18, stainless steel	E10736
	Angle bracket for type M30, stainless steel	E10737
	Mounting clamp, with end stop for types M12, PC	E11994
	Mounting clamp, with end stop for types M18, PC	E11995
	Mounting clamp, with end stop for types M30, PC	E11996