



Position sensors

Robust full-metal sensors for use in harsh environments



Inductive sensors



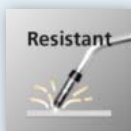
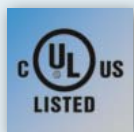
Short:
ideal for tight spaces

Flexible: temperature range
from -40...85 °C

Sealed: protection ratings
IP 65 to IP 69K

Quality: high-grade stainless for
food processes

Solid:
shock and vibration resistant



High reliability even under extreme conditions

Full-metal sensors are used wherever an application presents particular challenges to the mechanical design. In the food industry, for example, not only rapid changes of temperature but also aggressive media used for daily cleaning stress the housing material. The same applies to applications in machine tools and plants where the sensors are permanently exposed to coolants and lubricants. In the steel industry or in automotive industry, however, weld spatter is not only a strain on the sensing face but also on the threaded sleeve. In this context the full-metal design with non-stick coating and the robust sensing face are the ideal solution to ensure a safe operation.

Moreover, the robust stainless steel design offers optimum protection against abrasive parts in metal-cutting machining. Additionally, the compact and short design permits use even in the smallest of spaces.



Type	Total length [mm]	Sensing range [mm]	f [Hz]	Protection rating	Ambient temperature [°C]	Order no.
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M12 connector · output function NO · 3-wire DC PNP · coolant and oil lubricant

M12	45	4	100	IP 65, IP 66, IP 67, IP 68, IP 69K	-40...85	IFC275
M18	45	8	100	IP 65, IP 66, IP 67, IP 68, IP 69K	-40...85	IGC258
M30	50	15	100	IP 65, IP 66, IP 67, IP 68, IP 69K	-40...85	IIC233

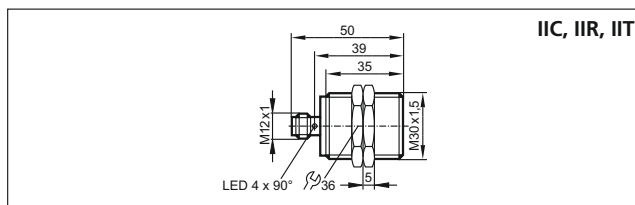
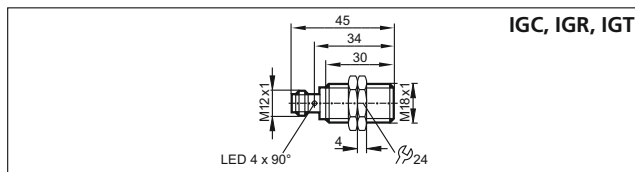
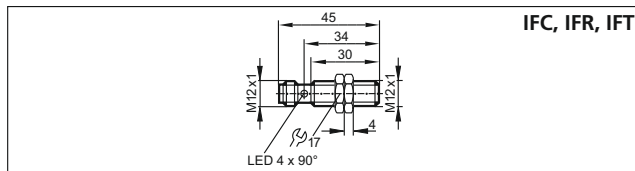
M12 connector · output function NO · 3-wire DC PNP · welding area · anti-spatter

M12	45	4	100	IP 65, IP 66, IP 67, IP 68, IP 69K	-40...85	IFR207
M18	45	8	100	IP 65, IP 66, IP 67, IP 68, IP 69K	-40...85	IGR207
M30	50	15	100	IP 65, IP 66, IP 67, IP 68, IP 69K	-40...85	IIR207

M12 connector · output function NO · 3-wire DC PNP · hygienic and wet areas

M12	45	4	100	IP 65, IP 66, IP 67, IP 68, IP 69K	0...100	IFT257
M18	45	8	100	IP 65, IP 66, IP 67, IP 68, IP 69K	0...100	IGT258
M30	50	15	100	IP 65, IP 66, IP 67, IP 68, IP 69K	0...100	IIT243

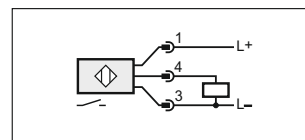
Dimensions



Further technical data

Operating voltage	[V DC]	10...30
Current consumption	[mA]	< 10
Installation		flush
Reverse polarity protection		•
Short-circuit protection		•
Overload protection		•
Protection class		III
Housing materials		High-grade stainless steel (316L)
Switching status indication	[LED]	yellow (4 x 90°)

Wiring diagram



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 grey, PUR cable	EVW001
	Socket, M12, 5 m grey, PUR cable	EVW002
	Socket, M12, 4-pole 2 m orange, PVC cable	EVT064
	Socket, M12, 4-pole 5 m orange, PVC cable	EVT001

Accessories

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

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