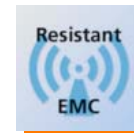
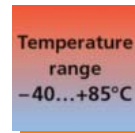
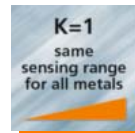


# One sensing range for all metals



## Inductive sensors for factory automation with correction factor K=1

- Uniform sensing range for the reliable detection of all metals
- Compact dimensions for use in the smallest of space
- Electromagnetic field immune sensor technology to prevent incorrect switching
- High-quality stainless steel housing
- High reliability thanks to protection rating from IP 65 / IP 69K







### Constant correction factor

"K=1" sensors have the same sensing range for all types of metals. They are for example perfectly suited for the detection of aluminium, where conventional sensors show a considerably reduced sensing range. The high switching frequencies enable the monitoring of fast changing switching states. The resistant stainless steel sleeve allows reliable use in oil and coolant applications. The wide temperature range as well as the high protection ratings enable universal use of the new "K=1" sensors.



Type	Total length [mm]	Sensing range [mm]	Installation	Switching frequency [Hz]	Current rating [mA]	Order number
<b>M12 connector · 3 wire DC PNP · Output function normally open</b>						
M12	45	4	flush	2000	100	IFS297
M12	45	8	non-flush	2000	100	IFS298
M12	45	10	non-flush	2000	100	IFS299
M12	60	4	flush	2000	100	IFS304
M12	60	8	non-flush	2000	100	IFS305
M12	60	10	non-flush	2000	100	IFS306
M18	45	8	flush	2000	100	IGS287
M18	45	12	non-flush	2000	100	IGS288
M18	45	15	non-flush	2000	100	IGS289
M18	60	8	flush	2000	100	IGS290
M18	60	12	non-flush	2000	100	IGS291
M18	60	15	non-flush	2000	100	IGS292
M30	45	15	flush	2000	100	IIS281
M30	60	15	flush	2000	100	IIS282
M30	60	22	non-flush	2000	100	IIS283
M30	60	30	non-flush	2000	100	IIS284

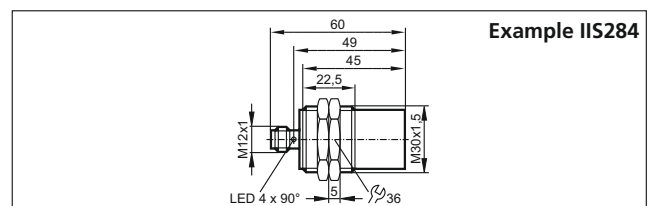
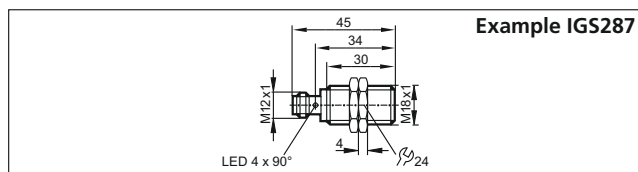
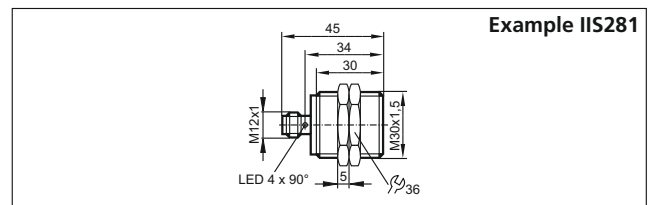
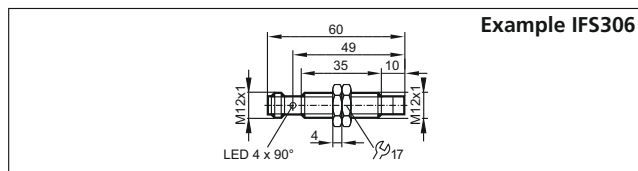
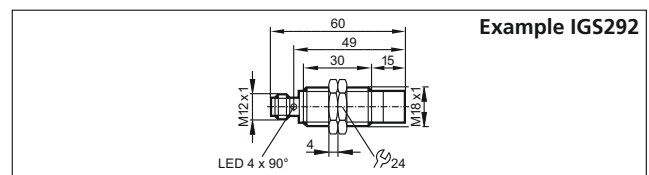
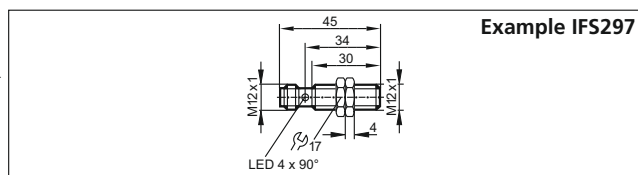
**Connection technology**

Type	Version	Order number
	Socket, M12, 2 m black, PUR cable	<b>EVC001</b>
	Socket, M12, 5 m black, PUR cable	<b>EVC002</b>
	Socket, M12, 2 m black, PUR cable	<b>EVC004</b>
	Socket, M12, 5 m black, PUR cable	<b>EVC005</b>

**Further technical data**

Operating voltage	[V DC]	10...30
Reverse polarity protection		•
Short-circuit protection		•
Overload protection		•
Protection rating		IP 65 / IP 66 / IP 67 / IP 68 / IP 69K
Protection class		III
Ambient temperature	[°C]	-40...85
Housing materials		High-grade stainless steel (316L) sensing face LCP
Output status indication	[LED]	yellow (4 x 90°)

**Dimensions**



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