



Position sensors



Kplus sensors: one sensing range for all metals



Inductive sensors



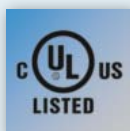
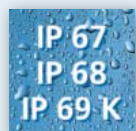
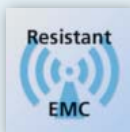
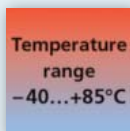
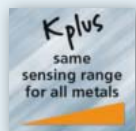
Uniform sensing range for the reliable detection of all metals

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

Kplus 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 Kplus sensors.



Type	Total length [mm]	Sensing range [mm]	Installation	Switching frequency [Hz]	Current rating [mA]	Order no.
M8 connector · 3 wire DC PNP · Output function normally open						
M8	40	3	flush	2000	100	IES200
M8	40	6	non-flush	2000	100	IES201
M12 connector · 3 wire DC PNP · Output function normally open						
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

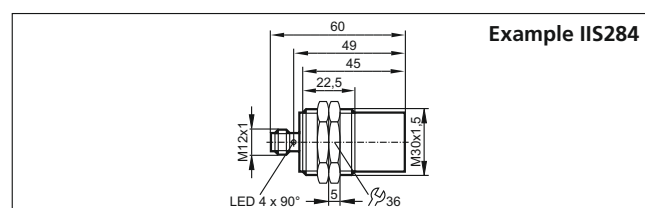
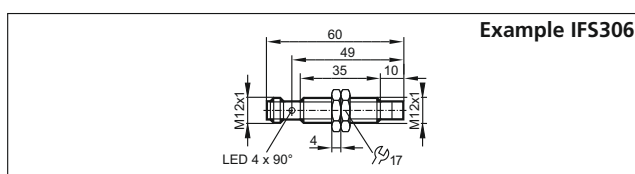
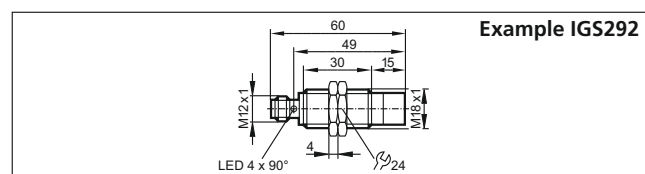
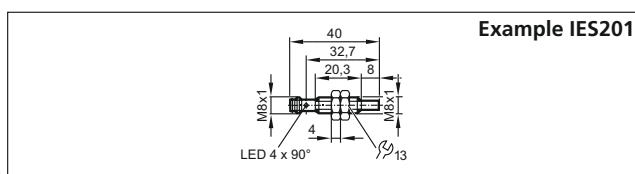
Connection technology

Type	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
	Socket, M8, 3 poles 2 m black, PUR cable	EVC141
	Socket, M8, 3 poles 5 m black, PUR cable	EVC142

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



ifm article no. 78002469 · We reserve the right to make technical alterations without prior notice. · 04/2017