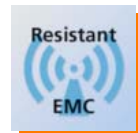
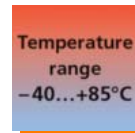
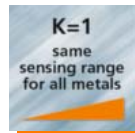


One sensing range for all metals



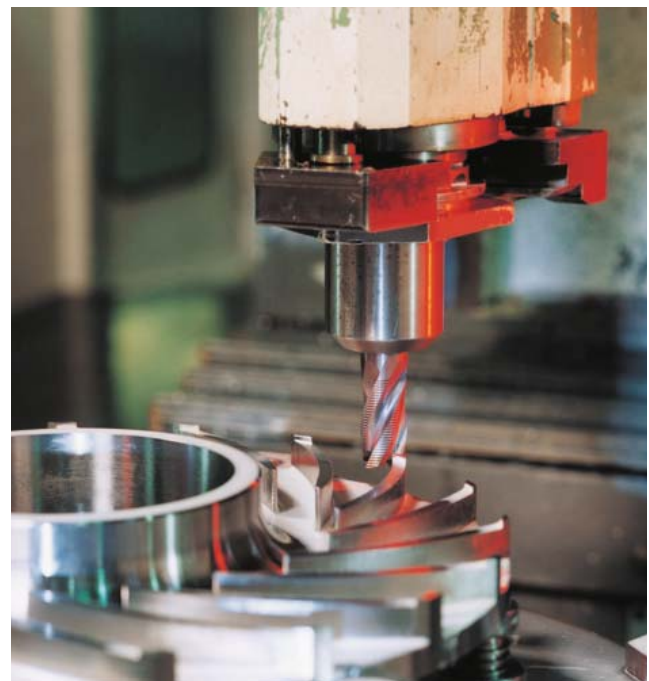
Inductive sensors for factory automation with correction factor K=1

- 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
- Wide temperature range for universal use
- High protection ratings up to IP 68 / IP 69K



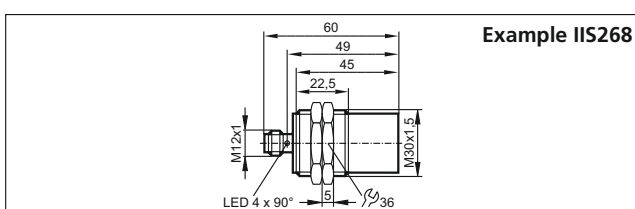
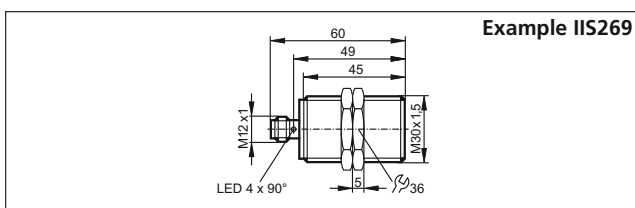
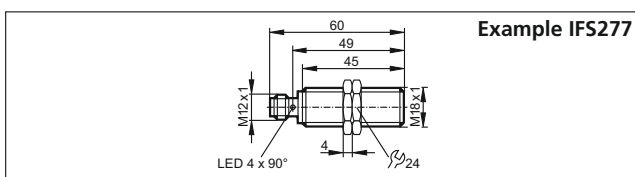
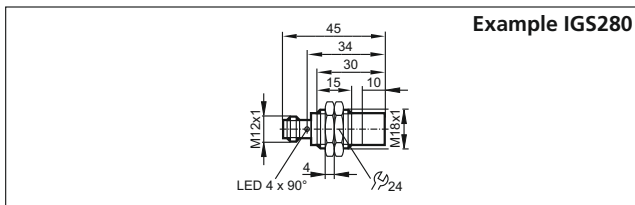
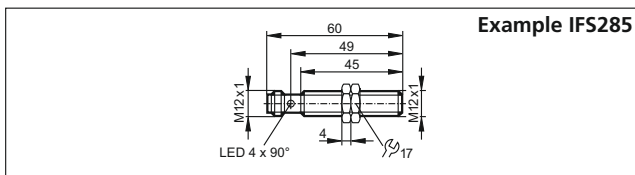
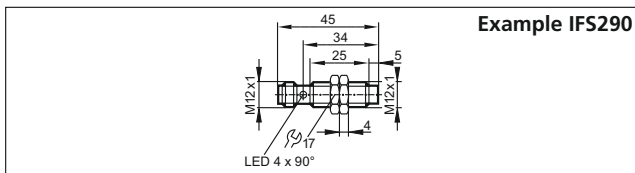
Constant correction factor

"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. With the new sensor technology, these sensors are insensitive to magnetic fields and can for example be reliably used right next to electrical brakes. 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
M12 connector · 3 wire DC PNP · Output function normally open						
M12	45	4	flush	2000	100	IFS289
M12	45	10	non-flush	2000	100	IFS290
M12	60	4	flush	2000	100	IFS285
M12	60	10	non-flush	2000	100	IFS286
M18	45	8	flush	2000	100	IGS279
M18	45	15	non-flush	2000	100	IGS280
M18	60	8	flush	2000	100	IGS277
M18	60	15	non-flush	2000	100	IGS278
M30	45	15	flush	2000	100	IIS269
M30	60	15	flush	2000	100	IIS267
M30	60	30	non-flush	2000	100	IIS268



Dimensions



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		brass plated with white bronze, sensing face LCP
Output status indication	[LED]	yellow (4 x 90°)

Connection technology

Type	Version	Order number
	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

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