



Analogue sensors with precise, linear output signal.



Measure distances up to 26 mm.

- Wide variety of housings: M12, M18, M30 and rectangular, flush or non-flush.
- Linearised current or voltage outputs.
- Negligible linearity error.
- Wide temperature range: -25...80 °C.
- Extremely high repeatability.

IP 67

High accuracy

Analogue output

M12 connector

Optimum integration

The new inductive analogue sensors can be used where distances up to 26 mm are measured without contact and wear.

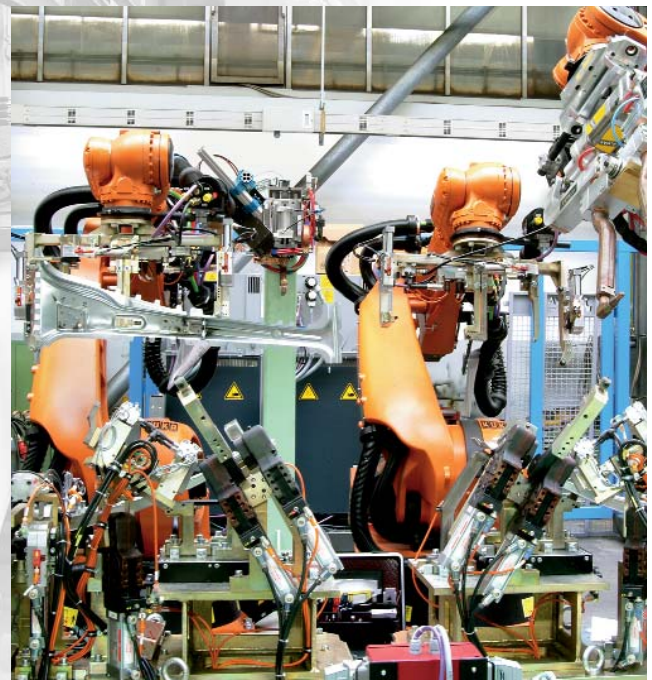
The process is monitored and controlled by means of the standard signals 4...20 mA or 0...10 V.

Very good repeatability

Due to innovative technical solutions the analogue sensors attain high repeatability. Moreover a very small linearity error ensures excellent quality of the measuring circuit.

Wide temperature range

The extraordinarily wide temperature range of -25...80 °C enables the sensors to withstand otherwise critical applications.



fluid sensors and diagnostic systems

position sensors and object recognition

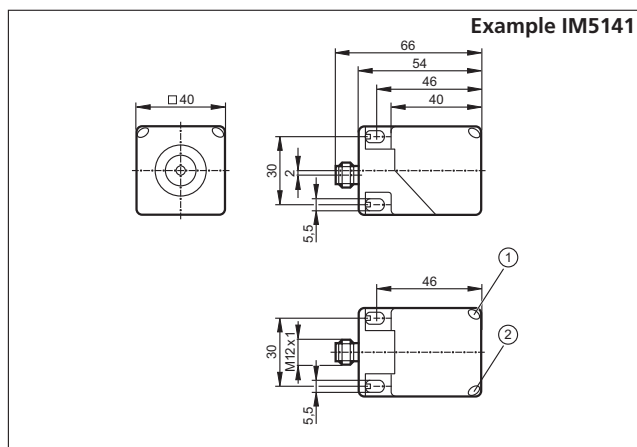
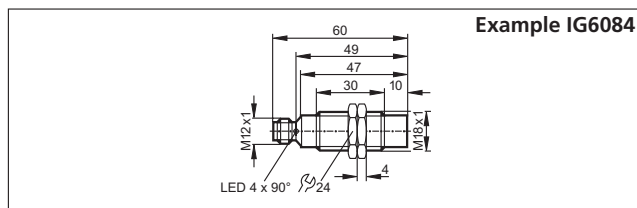
bus, identification and control systems

Applications:
Factory automation

Type [mm]	Housing length [mm]	Range [mm]	Load / load resistance [Ohm]	Linearity error [%]	Repeatability [%]	Order no.
M12 connector - output function analogue current signal 4...20 mA						
M12 / f	70	0.2...2	< 500	3	2	IF6028
M12 / nf	70	0.4...4	< 500	3	2	IF6030
M18 / f	60	0.5...5	< 500	3	2	IG6086
M18 / nf	60	0.8...8	< 500	1	1	IG6083
M30 / f	70	1...10	< 500	3	2	II5916
M30 / nf	70	1...15	< 500	1	1	II5913
40 x 40 / f	66	1...15	< 500	3	2	IM5139
40 x 40 / nf	66	1...26	< 500	3	2	IM5141

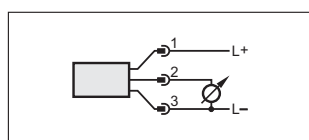
M12 connector - output function analogue voltage signal 0...10 V						
M12 / f	70	0.2...2	> 2000	3	2	IF6029
M12 / nf	70	0.4...4	> 2000	3	2	IF6031
M18 / f	60	0.5...5	> 2000	3	2	IG6087
M18 / nf	60	0.8...8	> 2000	1	1	IG6084
M30 / f	70	1...10	> 2000	3	2	II5917
M30 / nf	70	1...15	> 2000	1	1	II5914
40 x 40 / f	66	1...15	> 2000	3	2	IM5140
40 x 40 / nf	66	1...26	> 2000	3	2	IM5142

Dimensions



- 1) LED yellow (switching status)
- 2) LED green (operating status)





Wiring diagram



Common technical data

Types IF M12, IG M18, II M30, IM rectangular		
Operating voltage	[V]	15...30 DC
Current consumption	[mA]	< 20
Short-circuit protection, pulsed		•
Reverse polarity / overload protection		• / •
Protection		IP 67, II
Rising time	[ms]	< 10
Operating temperature	[°C]	-25...80
Housing material		PBT, coated brass
Status indication	LED	yellow (4 x 90°)

Connectors and splitter boxes

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

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