



Position sensors



Continuous position feedback and diagnostics



Valve feedback systems



Great all-round position visibility from a distance

Continuous position feedback

Easy setting via teach button or IO-Link

Diagnostic functions: cycle time and count, seal monitoring



Flexible configuration

The smart valve sensor matches settings to the application software (LR Device) or inductive teach button. Any end position of the valve and the size of the sensing range can be set. A third switch point can be selected, for example for three-way valves or for switching off the pump to avoid pressure peaks.

Diagnostic functions

The IO-Link communication interface allows the identification of different wear conditions. On the one hand, the sensor features seal monitoring indicating a change of the closed position, which can point to deposits or wear of the seal, for example. On the other hand, the different positions can be counted and the time taken can be measured.



U _b [V DC]	Ambient temperature [°C]	VDI/VDE 3845	Housing materials	Output function	Protection	Order no.
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Smart valve sensor · M12 connector

10...30	-25...70	80 x 20	PA; stainless steel plug	3 x NO / NC (selectable)	IP 65 / IP 67	MVQ101
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Accessories

Design	Description	Order no.
	Adapter 80 x 30 x 10 mm	E12569
	Adapter 130 x 30 x 10 mm	E12573

Accessories IO-Link

Design	Description	Order no.
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 kBit/s)	E30390
	Memory plug, parameter memory for IO-Link sensors	E30398
	IO-Link master with PROFINET interface	AL1100
	LR DEVICE (supplied on USB flash drive) Software for online and offline parameter setting of IO-Link sensors and actuators	QA0011

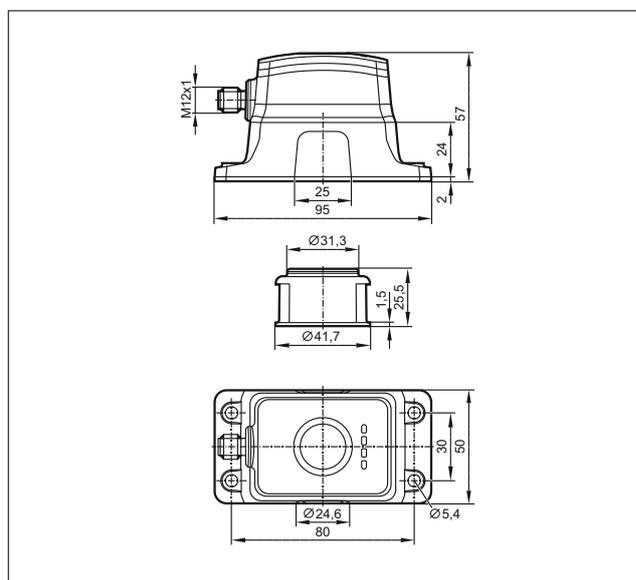
Connection technology

Design	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

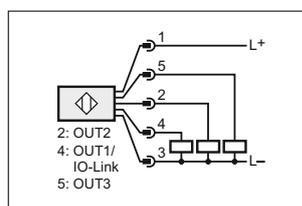
Further technical data

Detection range	[°]	360
Reverse polarity protection		•
Short-circuit protection		•
Resolution	[°]	0.1
Tolerance	[°]	± 0.1...15
Repeatability	[°]	0.1
Type of transmission		COM2 (38.4 kbaud)
IO-Link revision		1.1
Min. process cycle time	[ms]	4
Required master port class		A
SIO mode		•
Profiles		Smart sensor: Device Identification; Device Diagnosis; Device Teach Channel; Binary Data Channel; Process Data Variable; Measurement Data Channel

Dimensions



Wiring diagram



We reserve the right to make technical alterations without prior notice. · 04.2018