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

IO-Link

Stainless steel

VDI VDE 3845

Laptop parameter setting

Flexible configuration

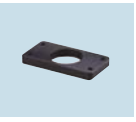
The smart valve sensor matches settings to the application software (LR Device) or inductive teach button. Any end position of the valve and the size of the sensing range can be set. A third switch point can be selected, for example for three-way valves or for switching off the pump to avoid pressure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

Diagnostic functions

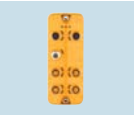
The IO-Link communication interface allows the identification of different wear conditions. On the one hand, the sensor features seal monitoring indicating a change of the closed position, which can point to deposits or wear of the seal, for example. On the other hand, the different positions can be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

Accessories

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

Accessories IO-Link

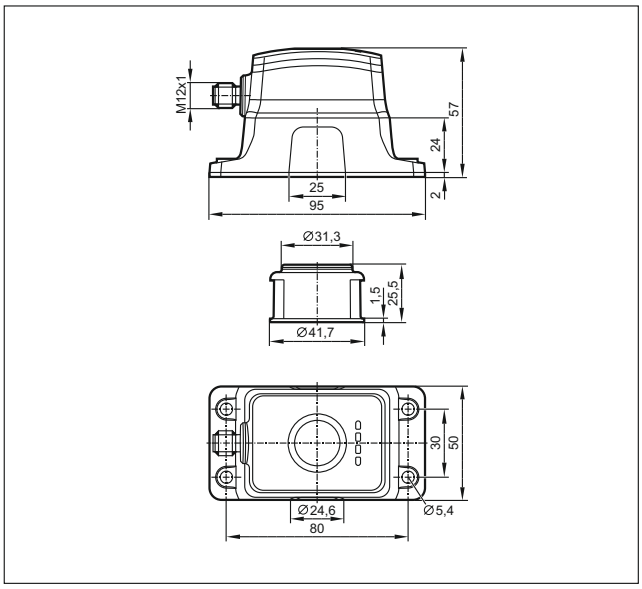
Design	Description	Order no.
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 kBit/s)	**E30390**
	Memory plug, parameter memory for IO-Link sensors	**E30398**
	IO-Link master with PROFINET interface	**AL1100**
	LR DEVICE (supplied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

Connection technology

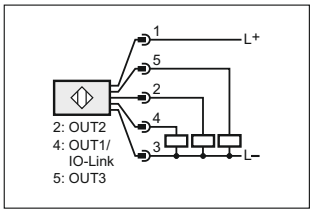
Design	Description	Order no.
	Socket, M12, 2 m black, PUR cable	**EVC070**
	Socket, M12, 5 m black, PUR cable	**EVC071**
	Socket, M12, 2 m black, PUR cable	**EVC073**
	Socket, M12, 5 m black, PUR cable	**EVC074**

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