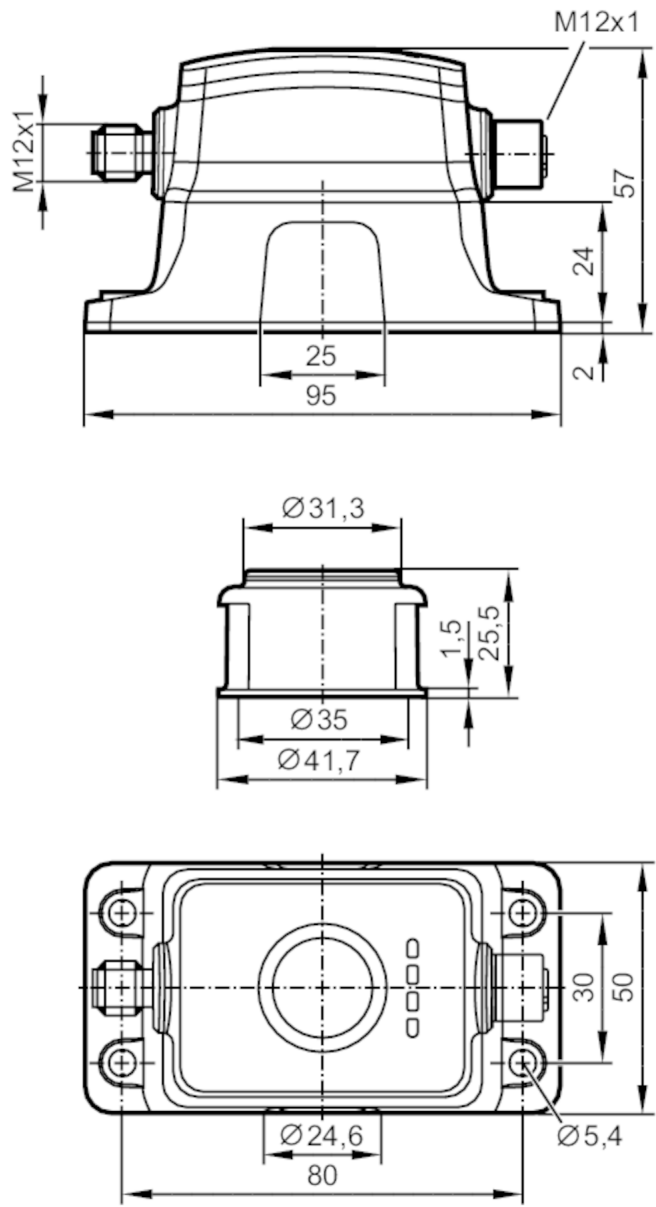


MVQ201



Position sensor for valve actuators

SVS SOLENOID OUT



Product characteristics	
Electrical design	PNP
Output function	2 x normally open / normally closed; (selectable)
Communication interface	IO-Link
Housing	rectangular
Dimensions [mm]	95 x 50 x 57
Solenoid valve connection	
Output function	2 x normally open
Application	
Principle of operation	magnetic



Position sensor for valve actuators

SVS SOLENOID OUT

Application	angle of rotation detection absolute
Electrical data	
Operating voltage [V]	10...30 DC
Current consumption [mA]	< 40
Protection class	III
Reverse polarity protection	yes
Max. power-on delay time [ms]	300
Inputs / outputs	
Number of inputs and outputs	Number of digital inputs: 1; Number of digital outputs: 2
Inputs	
Number of digital inputs	1
Outputs	
Electrical design	PNP
Number of digital outputs	2
Output function	2 x normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	2.5
Max. current load per output [mA]	100
Short-circuit protection	yes
Overload protection	yes
Solenoid valve connection	
Output function	2 x normally open
Max. current load per output [mA]	200
Short-circuit protection	yes
Overload protection	yes
Monitoring range	
Monitoring range [°]	360
Accuracy / deviations	
Accuracy [°]	± 1
Resolution [°]	0.1
Tolerance [°]	0.1...15; (default 10)
Hysteresis [°]	0.1...5; (default 3)
Temperature drift [°/K]	0,02
Repeatability [°]	0,1
Interfaces	
Communication interface	IO-Link
Transmission type	COM2 (38,4 kBaud)
IO-Link revision	1.1
SDCI standard	IEC 61131-9 CDV
Profiles	Smart Sensor: Device Identification; Device Diagnosis; Device Teach Channel; Binary Data Channel; Process Data Variable; Blob; Measurement Data Channel
SIO mode	yes
Required master port class	A

MVQ201



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Min. process cycle time	[ms]	4
Supported DeviceIDs	Type of operation	DeviceID
	default	1190

Operating conditions		
Ambient temperature	[°C]	-25...70
Protection	IP 65; IP 67; (Target puck area dust-protected)	

Tests / approvals		
EMC	EN 61000-4-2	4 kV CD / 8 kV AD
	EN 61000-4-3	10 V/m
	EN 61000-4-4	2 kV
	EN 61000-4-6	10 V
	EN 55011	class B
Vibration resistance	EN 60068-2-6 Fc	1 mm (10...55 Hz) / 1 octave per minute in 3 axes
Shock resistance	EN 60068-2-27 Ea	30 g 11 ms half-sine; 6 shocks each in every direction along the three coordinate axes
MTTF	[years]	363
Embedded software included		yes
UL approval	UL approval number	S002

Mechanical data		
Weight	[g]	192
Housing		rectangular
Dimensions	[mm]	95 x 50 x 57
Material		PA
Tightening torque	[Nm]	3

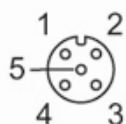
Displays / operating elements		
Display	Power	1 x LED, green
	Switching status	2 x LED, white
		1 x LED, RGB

Accessories		
Items supplied	socket head screws: 4 x M5 x 16, stainless steel	

Remarks		
Pack quantity	1 pcs.	

Electrical connection - Single solenoid valve

Connector: 1 x M12; coding: A; Moulded body: stainless steel



2	Out SV2
3	GND
4	Out SV1

MVQ201

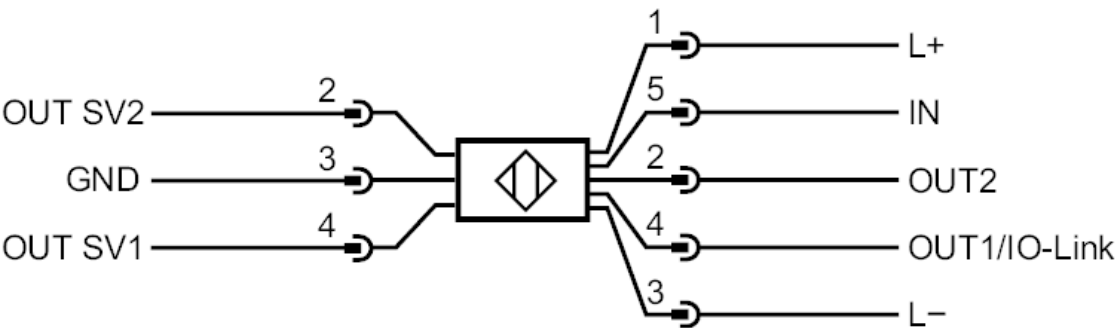


Position sensor for valve actuators

SVS SOLENOID OUT

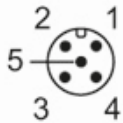
Electrical connection

Connection



Electrical connection - Process connection

Connector: 1 x M12; coding: A; Moulded body: stainless steel



1	Ub
2	Out2
3	GND
4	Out1 IO-Link
5	In1

Other data

Inputs

Operating mode	12 V	24 V
Switching level high	6...30 V	15...30 V
Switching level low	0...2 V	0...5 V