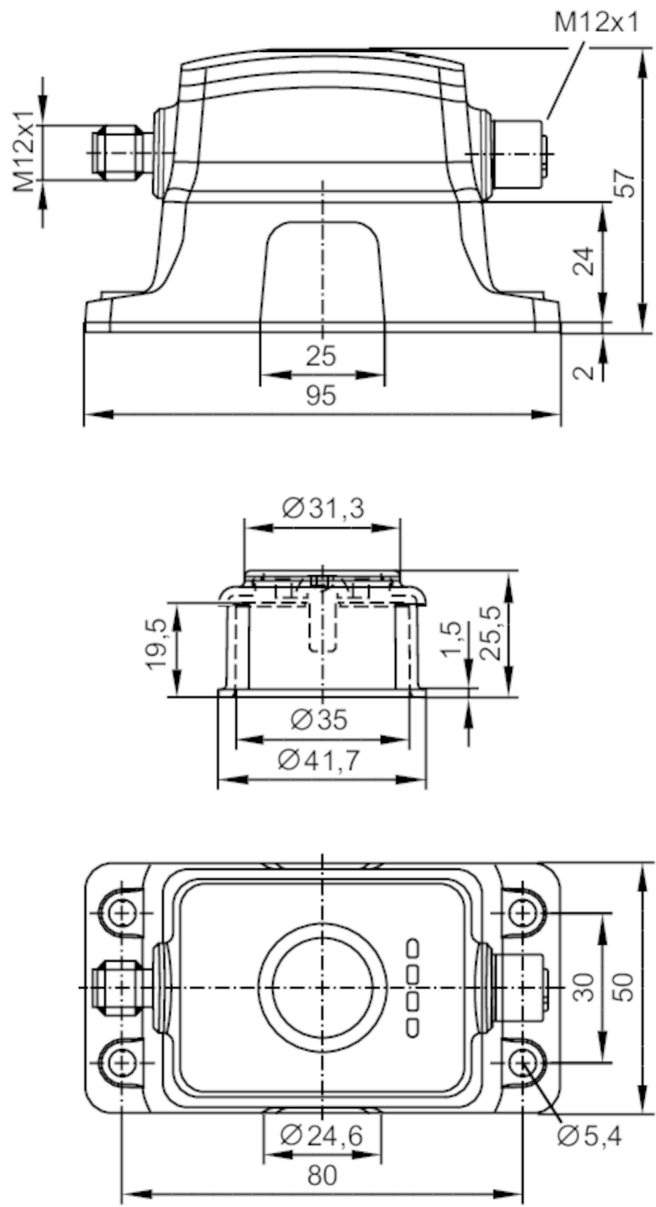


MVQ301



Positioner for industrial valves

MVQ3360-XRKG/IO/B-Port/2SV/US



Product characteristics	
Communication interface	IO-Link
Housing	rectangular
Dimensions [mm]	95 x 50 x 57
Solenoid valve connection (SV1 / SV2)	
Electrical design	PNP
Output function	2 x normally open
Application	
Operating principle	magnetic
Application	angle of rotation detection absolute; position control



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Electrical data		
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time [ms]		300
Actuator supply (UA)		
Operating voltage [V]		20...30 DC
Current consumption [mA]		< 410
Sensor supply (US)		
Operating voltage [V]		20...30 DC
Current consumption [mA]		< 40
Outputs		
Solenoid valve connection (SV1 / SV2)		
Electrical design		PNP
Output function		2 x normally open
Max. current load per output [mA]		200
Short-circuit protection		yes
Overload protection		yes
Detection zone		
Detection zone [°]		360
Accuracy / deviations		
Rotational angle detection		
Accuracy [°]		± 1
Temperature drift [°/K]		0,02
Repeatability [°]		0,1
Position control		
Deadband		0,5...25 % (Factory setting: 2 %)
Resolution [%]		0,1; (preset value)
Switch point indication		
Hysteresis [%]		0.4...10; (Factory setting: 1 %)
Open		1...100 % (Factory setting: 95 %)
Closed		0,0...99,0 % (Factory setting: 5 %)
Interfaces		
Communication interface		IO-Link
Transmission type		COM2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9 CDV
Profiles	BLOB	Binary Large Object transfer
	Common - I&D	Identification and Diagnosis
	Function	Locator
	Function	ProductURI
SIO mode		no
Required master port type		B
Min. process cycle time [ms]		6

MVQ301



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Supported DeviceIDs		Type of operation	DeviceID
		default	1775
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]	421
Embedded software included		yes	
UL approval		Ta	-25...70 °C
		Enclosure type	Type 1
		power supply	Limited Voltage/Current
		UL approval no.	S003
		File number UL	E174191
Mechanical data			
Weight		[g]	188.8
Housing		rectangular	
Dimensions		[mm]	95 x 50 x 57
Materials		housing, target puck: PA; plug, socket: stainless steel (316L / 1.4404)	
Tightening torque		[Nm]	target puck: 1,2; housing: 3,0; housing on plastic mounting plate: 1,5
Displays / operating elements			
Display		operation	1 x LED, green
		switching status	3 x LED, white
		switching status	1 x LED, RGB
Accessories			
Items supplied		socket head screws: 4 x (M5 x 16 mm), stainless steel	
Remarks			
Pack quantity		1 pcs.	
Electrical connection			

MVQ301

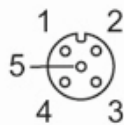


Positioner for industrial valves

MVQ3360-XRKG/IO/B-Port/2SV/US

Electrical connection - solenoid valve

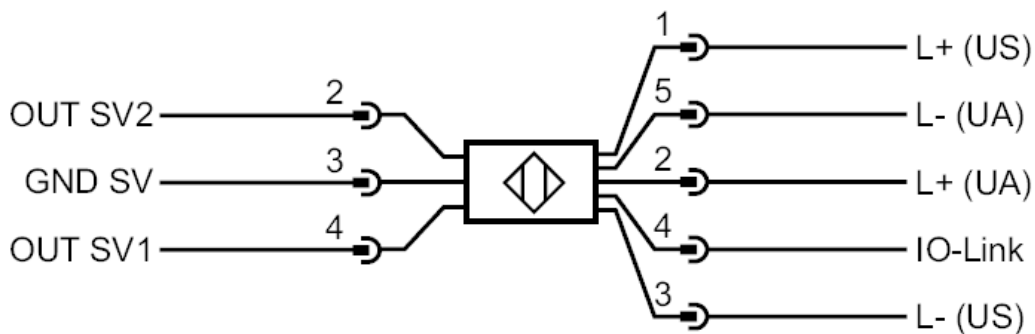
Connector: 1 x M12; coding: A



2	Out SV2
3	GND SV = L - (UA)
4	Out SV1

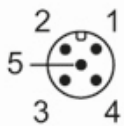
Electrical connection

Connection



Electrical connection - Process connection

Connector: 1 x M12; coding: A



1	L+ (US)
5	L- (UA)
2	L+ (UA)
4	IO-Link
3	L- (US)