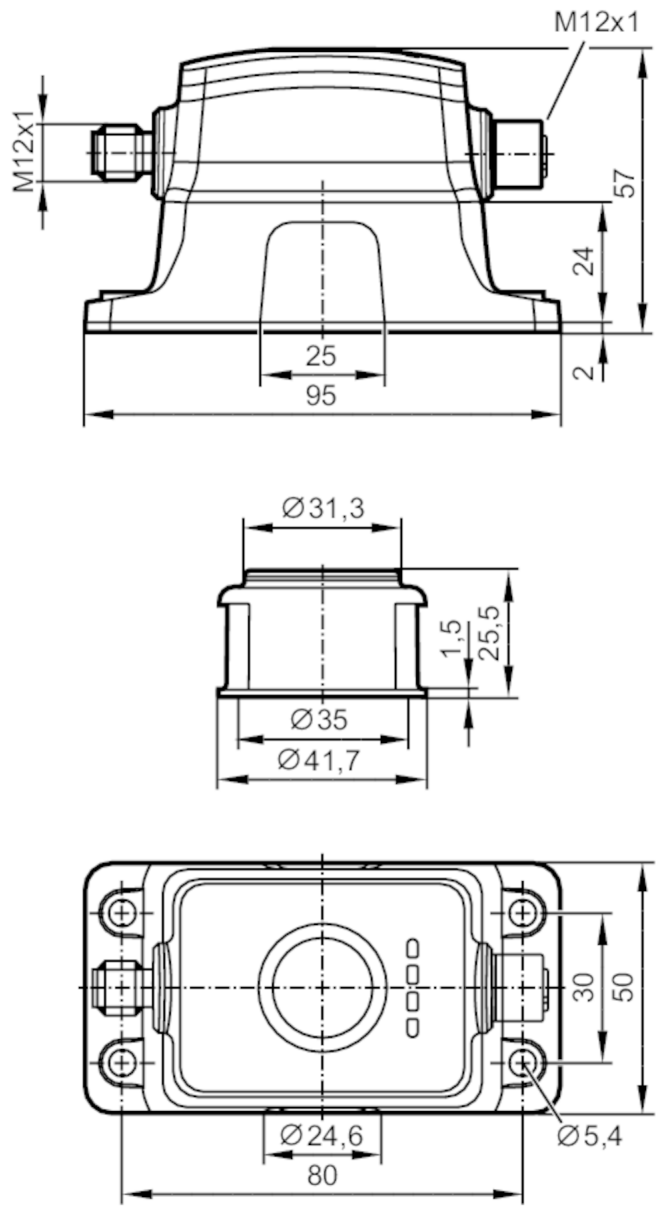


MVQ301



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	Function class	Designation
	0x0030	BLOB transfer
	0x4000	Identification and Diagnosis
	0x8101	Locator
	0x8102	ProductURI
SIO mode		no
Required master port type		B

MVQ301



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Min. process cycle time	[ms]	6
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

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 Nm; housing 3,0 Nm; housing on plastic mounting plate 0,9 Nm

Displays / operating elements		
Display	operation	1 x LED, green
	switching status	3 x LED, white
	switching status	1 x LED, RGB

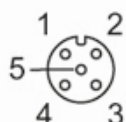
Accessories		
Items supplied	socket head screws: 4 x M5 x 16	

Remarks		
Pack quantity	1 pcs.	

Electrical connection		
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Electrical connection - solenoid valve		
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Connector: 1 x M12; coding: A



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

MVQ301

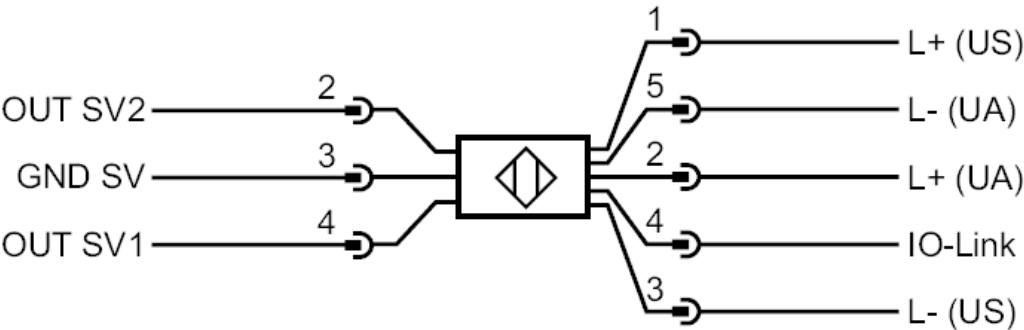


Positioner for industrial valves

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

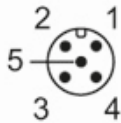
Electrical connection

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)