

IX5010

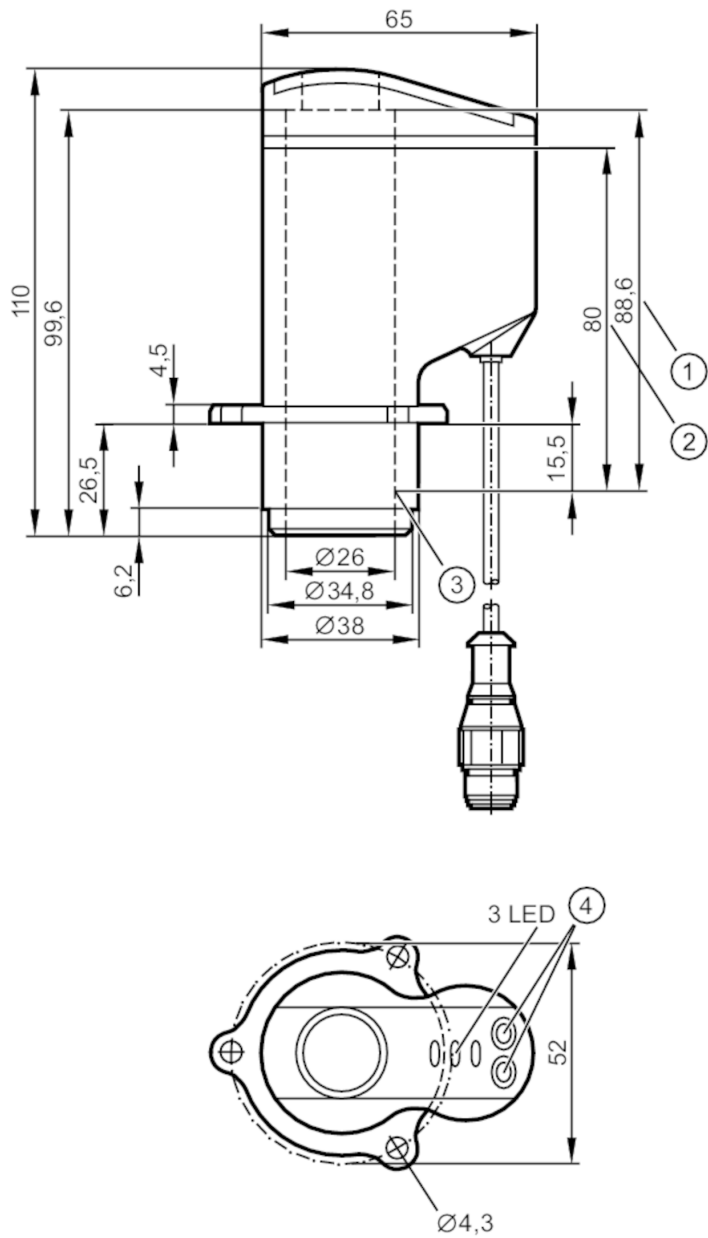


Position sensor for rising stem valves

IX-3080-BPKG/3LED/0,3M/US

phase-out article

Discontinuation date: 03/31/2027



- 1 max. spindle stroke
- 2 measuring distance
- 3 initial value of the measuring range zero point
- 4 programming buttons



Product characteristics

Electrical design	PNP
Output function	3 x normally open
Dimensions [mm]	65 x 52 x 110



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Application		
Application	position feedback for seat valves and diaphragm valves; absolute distance measurement; monitoring of the valve seal	
Electrical data		
Operating voltage	[V]	18...36 DC
Current consumption	[mA]	42; (24 V)
Protection class		III
Reverse polarity protection		yes
Max. power-on delay time	[ms]	2000
Outputs		
Electrical design		PNP
Output function		3 x normally open
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Detection zone		
Measuring range	[mm]	0...80
Max. target speed	[m/s]	1
Resolution of valve stroke	[mm]	0.2
Target		cylindrical disc
	-	Ø 24 mm ±0,05 mm
	-	minimum height 10 mm
	-	flat surface
	-	stainless steel to DIN17440, material number 316S12/1.4404.
Software / programming		
Parameter setting options	3 switch points to be freely defined within the measuring range	
Operating conditions		
Ambient temperature	[°C]	-25...85
Note on ambient temperature		for firmly laid cable
Protection	IP 65; IP 67; (only in conjunction with an installation in the valve head that provides sufficient protection against mechanical damage of the sensor)	
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV CD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV coupling clamp
	EN 61000-4-6 HF conducted	3 V
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]	298

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Mechanical data		
Weight	[g]	217.5
Type of mounting		3-hole flange
Dimensions	[mm]	65 x 52 x 110
Materials		PA; TPE; PP; LCP

Displays / operating elements		
Display	switching status	1 x LED, green open
	switching status	1 x LED, yellow seat
	switching status	1 x LED, red close

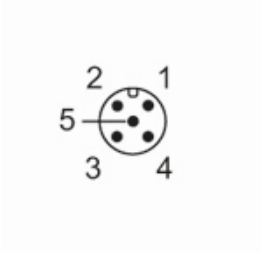
Accessories	
Items supplied	screws: 3

Remarks	
Pack quantity	1 pcs.

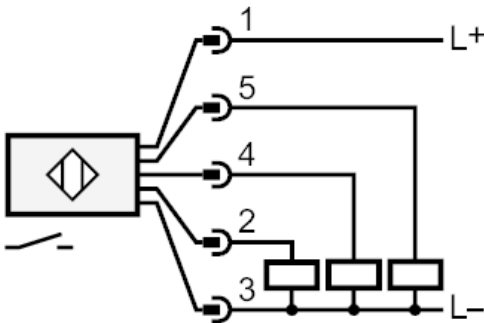
Electrical connection - plug

Cable: 0.3 m, PVC; 5 x 0.14 mm²

Connector: 1 x M12; coding: A



Connection



- 2 OUT 2 close
- 4 OUT 3 open
- 5 OUT 1 seat