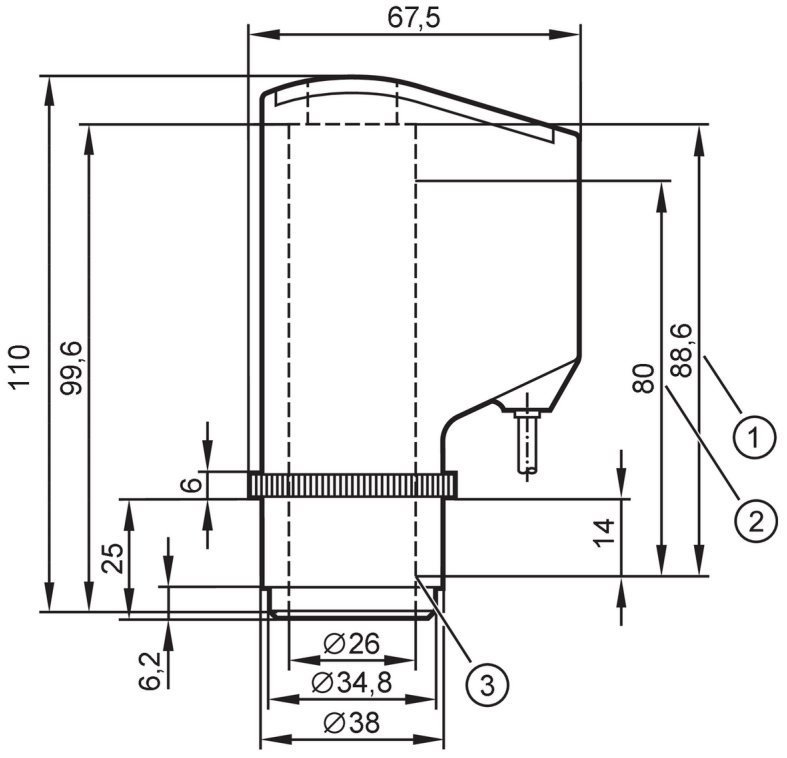
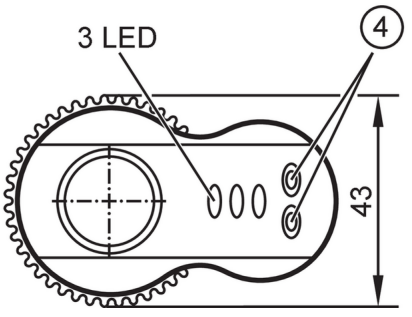
IX5006

Position sensor for rising stem valves

IX-3080-BPKG/3LED

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]	67.5 x 43 x 110
Application		
Application		position feedback for seat valves and diaphragm valves; absolute distance measurement; monitoring of the valve seal

IX5006

Position sensor for rising stem valves

IX-3080-BPKG/3LED

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 AD
		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	
Mechanical data			
Weight	[g]	216.5	
Dimensions	[mm]	67.5 x 43 x 110	

IX5006

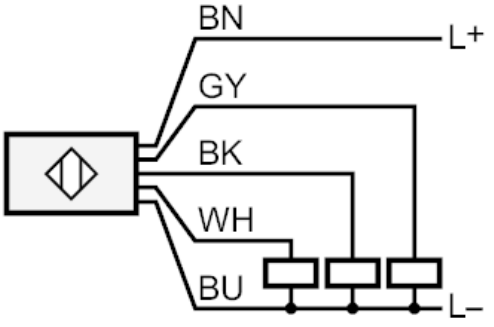
Position sensor for rising stem valves

IX-3080-BPKG/3LED

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	mounting clamps: 1	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		

Cable: 2 m, PVC; 5 x 0.14 mm²

Connection



black	OUT 1 seat
white	OUT 2 close
grey	OUT 3 open
	Core colours :
BK =	black
BN =	brown
BU =	blue
GY =	grey
WH =	white