

Article number **6532701001**

Identifying characteristics in accordance with EN 60947-5-2

Electrical data		
Sensor operation (delivery status)		
Rated operating distance	S _n	1 mm
Standard target		8 mm x 8 mm, t = 1 mm, material: FE360
Real sensing distance	S _r	0,90 ... 1,10 mm
Assured operating distance	S _a	0 ... 0,8 mm
Switching element function		DC, N.C.
Repeat accuracy	R	≤ 5 %
Differential travel (hysteresis)	H	≈ 8 %
Rated operational voltage	U _e	12 - 24 V DC
Operational voltage range	U _B	10 - 30 V DC
Rated insulation voltage	U _i	75 V DC
Rated impulse withstand voltage	U _{imp}	500 V
Voltage drop	U _d	≤ 2 V specification
Utilization category		DC 13
Rated operational current	I _e	200 mA ±10 %
Minimum operating current	I _m	1 mA
Off-state current	I _r	< 0,1 mA
No-load supply current	I _o	< 10 mA
Switching element		permanent overload and s.c.p.
Short-circuit protection		pulsed, current-limited and thermal
Frequency of operating cycles	f	1000 Hz
Mounting		flush
False polarity protection		yes
Time delay before availability	t _v	< 300 ms
IO-Link operation		 IO-Link
Rated operating voltage range	U _B	18 – 30 V DC (typ. 24 V DC)
Output		IO-Link
Switching element function		N.O. / N.C. parameterizable
Repeat accuracy	R	≤ 5 % from the end value, U _B and temperature at a constant level
No-load supply current	I _o	< 15 mA
Serial output		Short-circuit proof
False polarity protection		yes

IO-Link specification		
IO-Link Spec V 1.1	compliant (yellow LED)	
Speed	COM 2	38,4 kBaud
Process data Device→Master	8 bit	
cycle time	10 ms	

Mechanical Data	
Front cap	LCP, black
Enclosure	stainless steel (Niro 1.4305)
Ambient air temperature	-25 °C ... +70 °C
Type of protection	IP67 / NEMA Type 1
Function indication	LED, yellow
Degree of pollution	3 (Pollution of the sensing surface may decrease operating distance)
Termination type	Cable 3 x 0,14 mm ² x 2 m±5 %, PUR - Outer jacket, black
For attachment	2 x hexagon nut (tightening torque ≤ 8 Nm) and 2 x toothed washer

Product reliability (in acc. with DIN EN 61709 (SN 29500))	
MTTF (at 40 °C)	>1150 years

EU Conformity	
	acc. to directive 2014/30/EU (EMC-Directive)

Approvals	
	

Notes	
To be used with a class 2 power supply according to UL approval.	
Further data and information can be found at www.bernstein.eu .	