

Inductive Sensor with Increased Switching Distance

I03H003

Part Number



- **High switching frequency of 3,000 Hz**
- **Increased switching distance**
- **Integrated LED adjustment tool**
- **Miniature stainless steel design**

Technical Data

Inductive Data

Switching Distance	1 mm
Correction Factors Stainless Steel V2A/CuZn/Al	0,80/0,60/0,50
Mounting	flush
Mounting A/B/C/D in mm	1/2/3/0
Switching Hysteresis	< 10 %

Electrical Data

Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	≤ 10 mA
Switching Frequency	3000 Hz
Temperature Drift	≤ 10 %
Temperature Range	-25...70 °C
Switching Output Voltage Drop	< 2 V
Switching Output/Switching Current	≤ 100 mA
Residual Current Switching Output	≤ 0,1 µA
Short Circuit Protection	yes
Reverse Polarity and Overload Protection	yes
Protection Class	III

Mechanical Data

Housing Material	V2A stainless steel, POM
Degree of Protection	IP67
Connection	Cable, 3-wire, 2 m
Cable Jacket Material	PUR

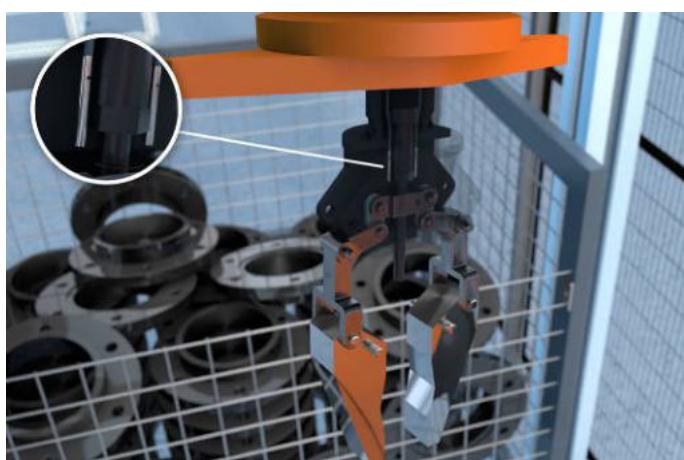
Safety-relevant Data

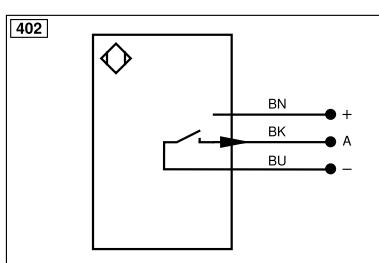
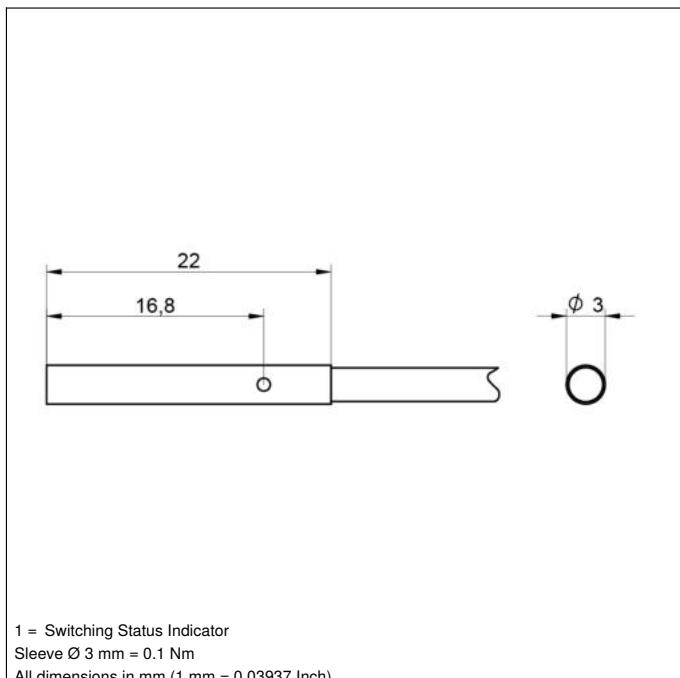
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Function

LED adjustment tool	yes
NPN NO	●
Connection Diagram No.	402
Suitable Mounting Technology No.	924

These inductive sensors feature increased switching distances and high switching frequencies in a miniature design. This provides effective detection of end positions and the smallest of parts, even in very confined spaces, and it means they can be used in fast assembly processes. The robust stainless steel housing and the integrated, bright LED adjustment tool ensure easy installation and a long service life.





Legend		Wire Colors according to DIN IEC 60757	
+	Supply Voltage +	nc	Not connected
-	Supply Voltage 0 V	U	Encoder B/B (TTL)
~	Supply Voltage (AC Voltage)	Ü	Encoder A
A	Switching Output (NO)	W	Encoder B
Ä	Switching Output (NC)	W-	Digital output MIN
V	Contamination/Error Output (NO)	O	Digital output MAX
Ý	Contamination/Error Output (NC)	O-	Digital output OK
E	Input (analog or digital)	BZ	Synchronization In
T	Teach Input	Amv	Synchronization OUT
Z	Time Delay (activation)	a	Brightness output
S	Shielding	b	Maintenance
RxD	Interface Receive Path	SY	Reserved
TxD	Interface Send Path	SY-	Wire Colors according to DIN IEC 60757
RDY	Ready	E+	BK Black
GND	Ground	S+	BN Brown
CL	Clock	±	RD Red
E/A	Output/Input programmable	SnR	OG Orange
IO-Link		Rx+/-	YE Yellow
PoE	Power over Ethernet	Tx+/-	GN Green
IN	Safety Input	Bus	BU Blue
OSSD	Safety Output	La	VT Violet
Signal	Signal Output	Mag	GY Grey
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	WH White
EN0_RS422	Encoder 0-pulse 0/0 (TTL)	EDM	PK Pink
PT	Platinum measuring resistor	ENARS422	GNYE Green/Yellow

Mounting

