

HD03NB3

Part Number

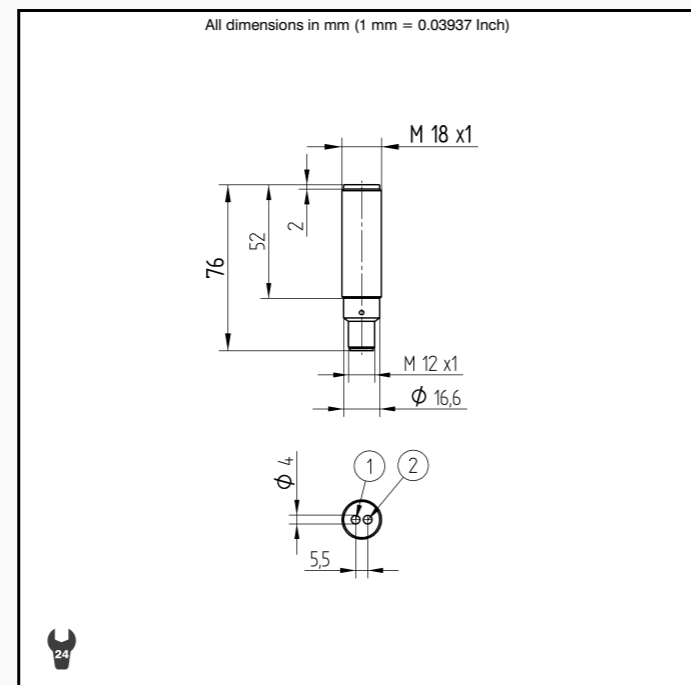
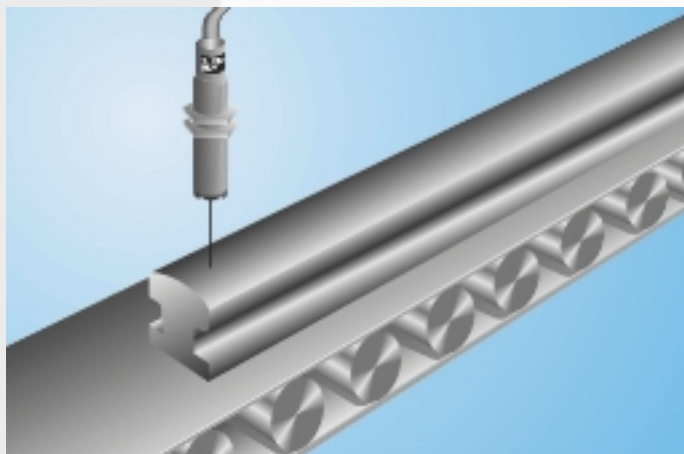


Technical Data

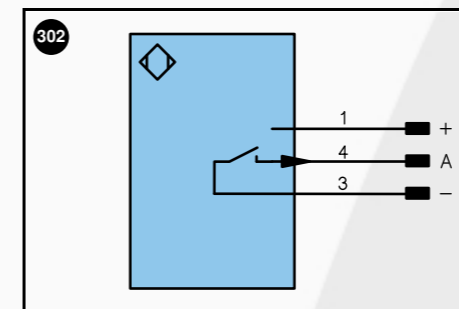
Optical Data	
Range	30 mm
Switching Hysteresis	< 15 %
Light Source	Infrared Light
Service Life (T = +25°C)	100000 h
max. Ambient Light	10000 Lux
Opening Angle	12°
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U _b = 24V)	< 40 mA
Switching Frequency	1500 Hz
Response Time	330 μs
Temperature Drift	< 10 %
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 2.5 V
NPN Switching Output/Switching Current	100 mA
Residual Current Switching Output	< 50 μA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Mechanical Data	
Housing	BrasNicPlated
Full Encapsulation	yes
Protection Mode	IP 67
Connection	M 12x1

- Fine Focused Optics
- Low-Cost
- Quasi-Background-Suppression

Thanks to fine focusing optics the background is suppressed beyond 50 mm.



Part Number	Plug Version
HD03NB3	
NPN NO	●
Connection Diagram No.	302
Control Panel No.	D 2
Suitable Plug No.	1



Legend			
+	Power supply "+"	U	Test input
-	Power supply "0V"	W	Trigger input
-	Power supply (AC Voltage)	O	Analog output (1,2,3,...)
A	Switching output (1,2,3...)/ NO	O-	Ground for the analog output
A	Switching output (1,2,3...)/ NC	BZ	Block discharge
V	Contamination / Error output (NO)	Aw	Valve output
V	Contamination / Error output (NC)	a	Valve control output "+"
E	Input (analog or digital)	b	Valve control output "0V"
T	Teach input	SY	Synchronization
Z	Time delay (activation)	E+	Receiver-Line
S	Shielding	S+	Emitter-Line
RxD	RS-232 receive path	⊕	Grounding
TxD	RS-232 send path		

Wire colors according to DIN IEC 757	
BK	black
BN	brown
RD	red
OG	orange
YE	yellow
GN	green
BU	blue
VT	violet
GY	grey
WH	white
PK	pink
GNYE	green yellow

Accessories

- Mounting Clamp BSM18B
- Mounting Bracket W18

Ctrl. Panel



30 = Switching Status/Contamination Warning

Switching Distance Deviation

Typical characteristic curve based on Kodak white, 90%

