

HD03PA

Part Number

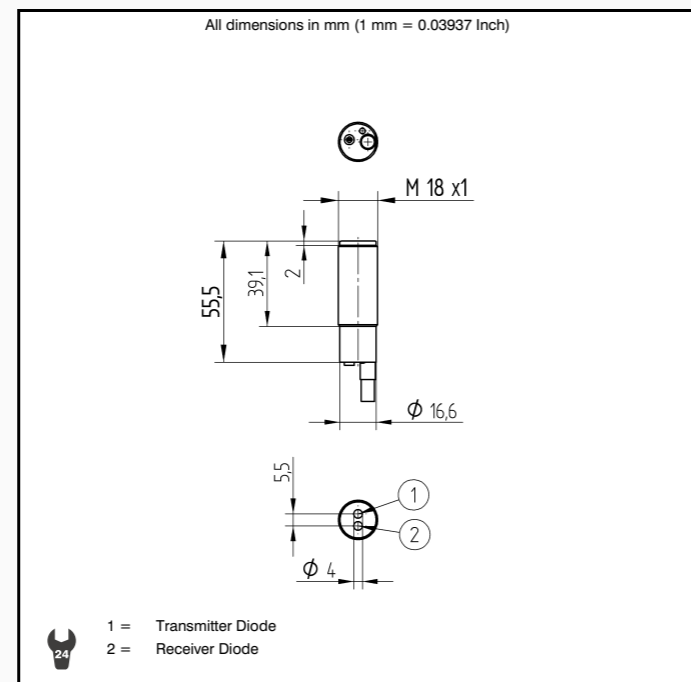
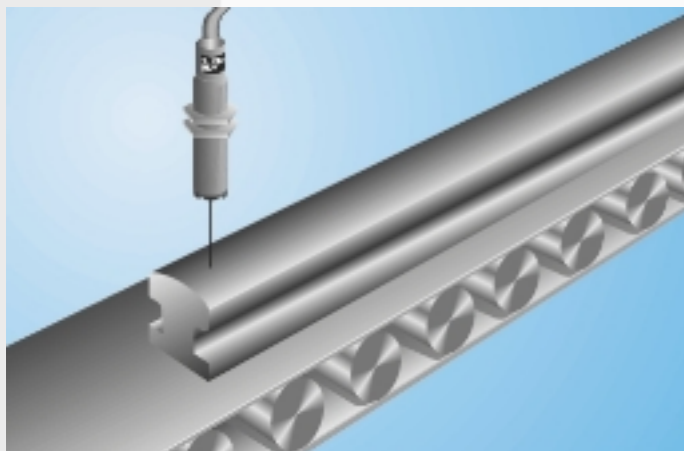
Technical Data

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
PNP Switching Output/Switching Current	200 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	Prewired
Cabel Length	2 m



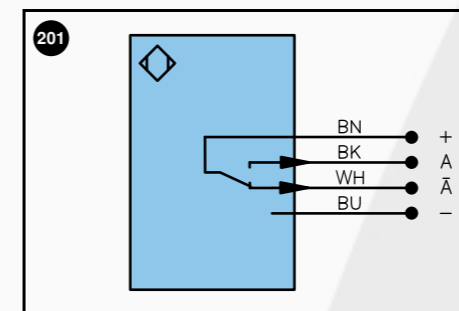
- Fine Focused Optics
- Low-Cost
- Quasi-Background-Suppression

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



Specifications are subject to change without notice
17/03

Prewired Version	
Part Number	HD03PA
PNP NO/NC antivalent	●
Connection Diagram No.	201
Control Panel No.	D 3

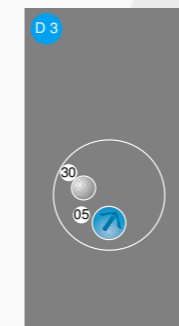


Legend		
+ Power supply "+"	U Test input	Wire colors according to DIN IEC 757
- Power supply "0V"	W Trigger input	BK black
- Power supply (AC Voltage)	O Analog output (1,2,3,...)	BN brown
A Switching output (1,2,3...) / NO	O- Ground for the analog output	RD red
A-bar Switching output (1,2,3...) / NC	BZ Block discharge	OG orange
V Contamination / Error output (NO)	Aw Valve output	GN green
V-bar Contamination / Error output (NC)	a Valve control output "+"	BU blue
E Input (analog or digital)	b Valve control output "0V"	VT violet
T Teach input	SY Synchronization	GY grey
Z Time delay (activation)	E+ Receiver-Line	WH white
S Shielding	S+ Emitter-Line	PK pink
RxD RS-232 receive path	≡ Grounding	GNVE green yellow
TxD RS-232 send path		

Accessories

- Mounting Clamp BSM18B
- Mounting Bracket W18

Ctrl. Panel



- 05 = Switching Distance Adjuster
- 30 = Switching Status/Contamination Warning

Switching Distance Deviation

Typical characteristic curve based on Kodak white, 90%

