

## LN89PA3

Part Number

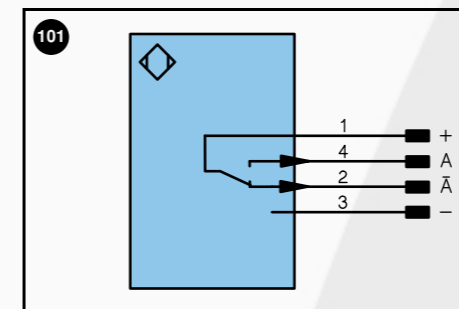


- Good Positioning Accuracy
- Min. clearance to reflector: 0 mm
- Single-Lens Optic
- Stainless Steel Plug (V2A)

### Technical Data

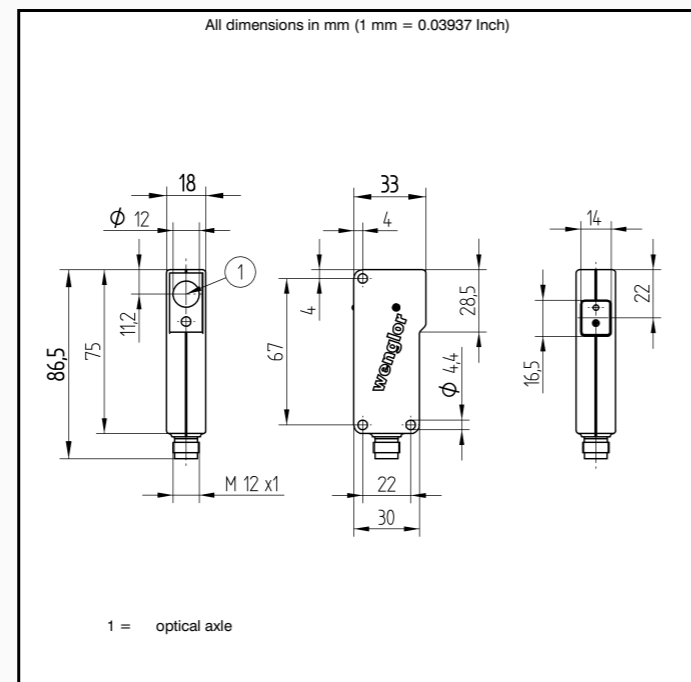
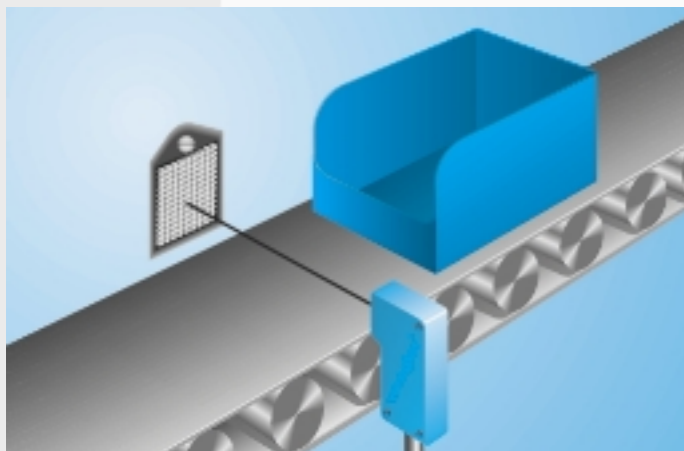
Optical Data	
Range	5500 mm
Reference Reflector	RQ100BA
Switching Hysteresis	< 15 %
Light Source	Red Light
Polarization Filter	yes
Service Life (T = +25°C)	100000 h
max. Ambient Light	10000 Lux
Opening Angle	5 °
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (U <sub>b</sub> = 24V)	< 40 mA
Switching Frequency	1 kHz
Response Time	500 μs
Temperature Drift	< 10 %
Temperature Range	-10...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	Plastic
Full Encapsulation	yes
Protection Mode	IP 67
Connection	M 12x1
Protective Insulation, Rated Voltage	50 V

Plug Version	
Part Number	LN89PA3
PNP NO/NC antivalent	●
Connection Diagram No.	101
Control Panel No.	N 1 No 1
Suitable Plug No.	1



Legend					
+	Power supply "+"	U	Test input	WK	black
-	Power supply "0V"	W	Trigger input	BN	brown
-	Power supply (AC Voltage)	O	Analog output (1,2,3,...)	RD	red
A	Switching output (1,2,3...)/ NO	O-	Ground for the analog output	OG	orange
A̅	Switching output (1,2,3...)/ NC	BZ	Block discharge	YE	yellow
V	Contamination / Error output (NO)	Aw	Valve output	GN	green
V̅	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	GNYE	green yellow
TxD	RS-232 send path				

A reflector must be used in combination with these sensors. They can be installed in all kinds of industrial environments thanks to ample functional reserve. Even reflective objects can be reliably recognized through the use of polarized light.

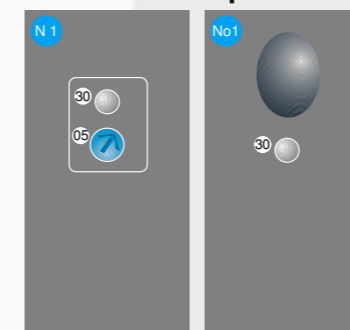


Specifications are subject to change without notice  
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### Accessories

- Mounting Bracket WN
- Reflector, Reflector Tape

### Ctrl. Panel Optic



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