

# Universal Reflex Sensor



## UC66PA3

Part Number

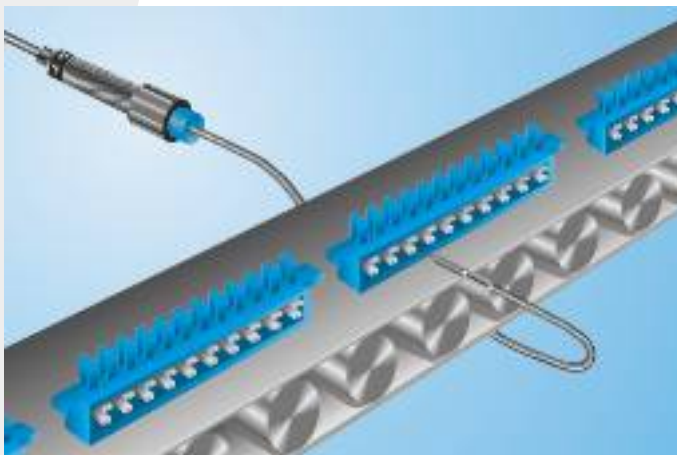


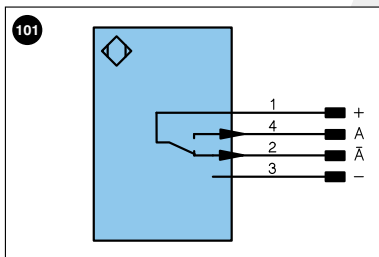
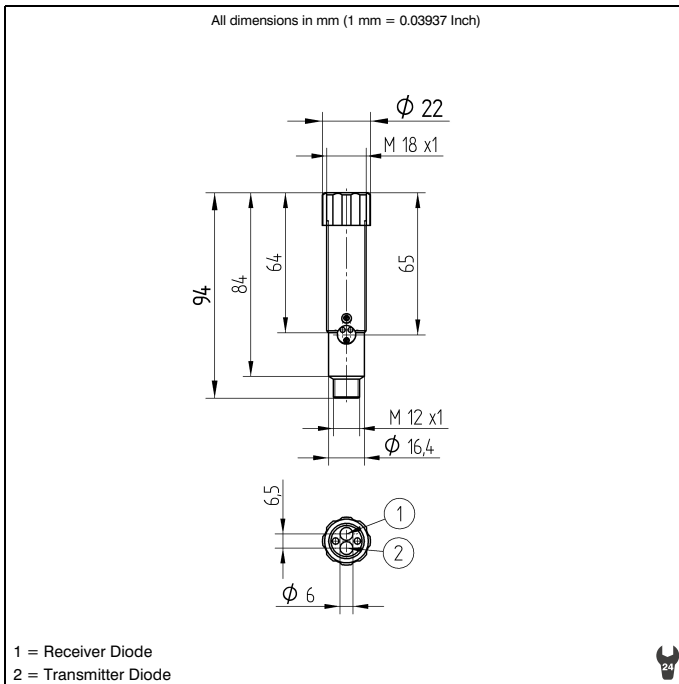
- **Adaptable for Glass Fiber Optic Cable: Reflex and Through Beam Mode**
- **Adjustable Detection Range**
- **Large Detection Range**
- **Stainless Steel Housing**

### Technical Data

Optical Data	
Range	1000 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 <sub>b</sub> = 24V)	< 40 mA
Switching Frequency	1 kHz
Response Time	500 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	Stainless Steel
Full Encapsulation	yes
Degree of Protection	IP 65
Connection	M12 x 1
Protective Insulation, Rated Voltage	50 V
PNP NO/NC antivalent	●
Connection Diagram No.	101
Control Panel No.	D 6
Suitable Fiber Optic Cabel Adapter	2
Suitable Plug No.	2

The transmitter and the receiver are integrated into a single housing. The sensor evaluates transmitted light reflected back from the object. The output is switched as soon as an object passes the selected range. Bright objects reflect more light than dark objects, and can thus be recognized from greater distances. These sensors are equipped for use with glass fiber optic cable. They can be used with or without glass fiber optic cable.



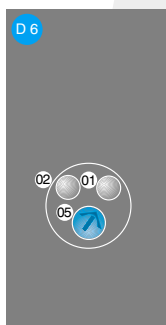


Legend		Wire colors according to DIN IEC 757			
+	Power supply "+"	U	Test input	BK	black
-	Power supply "0V"	W	Trigger input	BN	brown
~	Power supply (AC Voltage)	O	Analog output (1,2,3,...)	RD	red
A	Switching output (1,2,3,...) / NO	O-	Ground for the analog output	OG	orange
Ā	Switching output (1,2,3,...) / NC	BZ	Block discharge	YE	yellow
V	Contamination / Error output (NO)	AW	Valve output	GN	green
V̄	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	SnR	Switching Distance Reduction		
RDY	Ready	USB+	USB data +		
GND	Ground	USB-	USB data -		
CL	Clock	B <sub>a</sub>	Interfaces-Bus A(+)/B(-)		
E/A	Output/Input programmable	La	Emitted light disengageable		

## Accessories

Glass Disc GS1
Glass Fiber Optic Cable
Mounting Bracket W18
Mounting Clamp BSM18B

## Ctrl.Panel



- 01 = Switching Status Indicator
- 02 = Contamination Warning
- 05 = Switching Distance Adjuster