

TC55NA3

Part Number

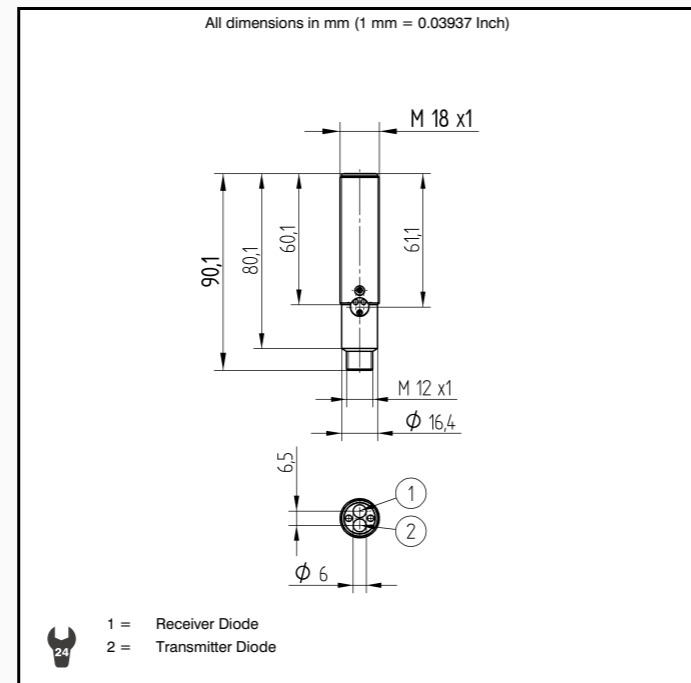
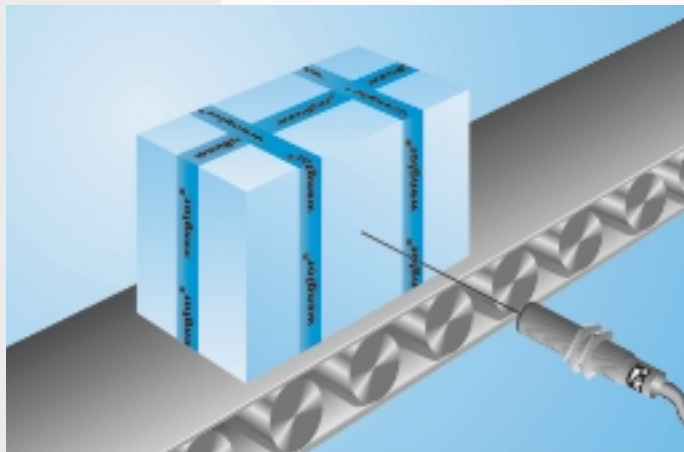
Technical Data

Optical Data	
Range	500 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	2 kHz
Response Time	250 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	Stainless Steel
Full Encapsulation	yes
Protection Mode	IP 67
Connection	M 12x1
Protective Insulation, Rated Voltage	50 V



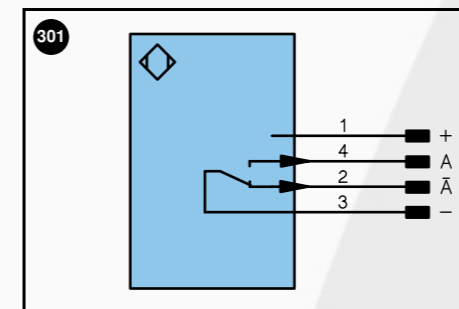
- Adjustable Detection Range
- Stainless Steel Housing

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.



Specifications are subject to change without notice
28/02

Plug Version	
Part Number	TC55NA3
NPN NO/NC antivalent	●
Connection Diagram No.	301
Control Panel No.	D 6
Suitable Plug No.	1

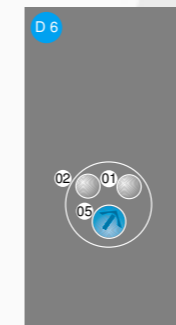


Legend				
+	Power supply "+"	U	Test input	Wire colors according to DIN IEC 757
-	Power supply "0V"	W	Trigger input	BK black
-	Power supply (AC Voltage)	O	Analog output (1,2,3,...)	BN brown
A	Switching output (1,2,3...)/ NO	O-	Ground for the analog output	RD red
Ä	Switching output (1,2,3...)/ NC	BZ	Block discharge	OG orange
V	Contamination / Error output (NO)	Aw	Valve output	GN green
E	Contamination / Error output (NC)	a	Valve control output "+"	BU blue
I	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			

Accessories

- Mounting Clamp BSM18B
- Mounting Bracket W18

Ctrl.Panel



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