## **Reflex Sensor**

TC55PA3 Part Number

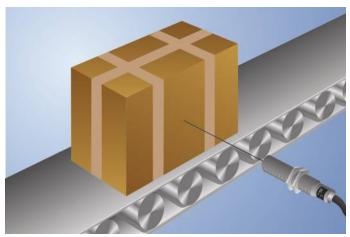
• Adjustable detection range

• Stainless steel housing

## **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	1030 V DC
Current Consumption (Ub = 24 V)	< 40 mA
Switching Frequency	2 kHz
Response Time	250 <i>µ</i> s
Temperature Drift	< 10 %
Temperature Range	-2560 °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
Protection Class	III
Mechanical Data	
Setting Method	Potentiometer
Housing Material	Stainless Steel
Full Encapsulation	yes
Degree of Protection	IP67
Connection	M12 × 1; 4-pin
PNP NO/NC antivalent	
Connection Diagram No.	101
Control Panel No.	D6
Suitable Connection Equipment No.	2
Suitable Mounting Technology No.	150

The transmitter and receiver in these sensors are located in 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.



**Complementary Products** 

Dust Extraction Tube STAUBTUBUS-01 PNP-NPN Converter BG2V1P-N-2M

**Photoelectronic Sensors** 



Synchronization In

rsv reserved Wire Colors according to DIN IEC 757

SY OUT Synchronization OUT Out Brightness output

Maintenance

M rsv

ΒN

RD

OG

YE

GN

BU

VT

GY

WΗ White

BK Black

Brown Red

Orange

Yellov

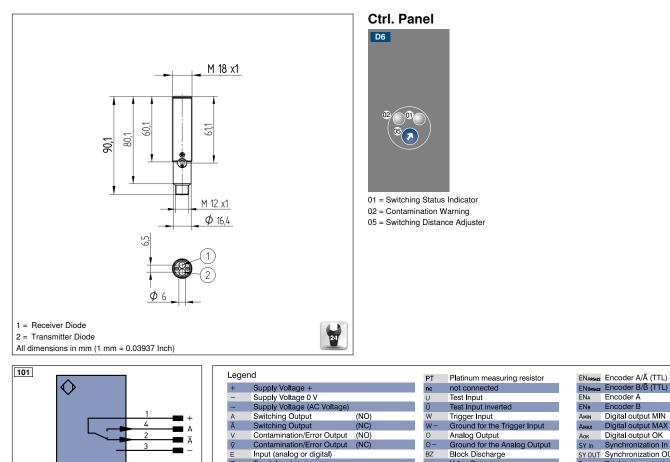
Green

Blue

Violet

Grev

PK Pink GNYE Green/Yellow



0-

R7

Awv

SY-

SnR

La

Mag RES

EDM

E+

Block Discharge Valve Output Valve Control Output + Valve Control Output 0 V

Ground for the Synchronization

Grounding Switching Distance Reduction

Interfaces-Bus A(+)/B(–) Emitted Light disengageable

Synchronization

Receiver-Line

Emitter-Line

Rx+/- Ethernet Receive Path

Magnet activation

Input confirmation Contactor Monitoring

Tx+/- Ethernet Send Path

V

E T

Z S

RDY

E/A

0

PoF

IN

Teach Input Time Delay (activation)

Shielding Interface Receive Path

Output/Input program

BLD+/- Ethernet Gigabit bidirect. data line (A-D) ENorsez Encoder 0-pulse 0-0 (TTL)

Power over Ethernet

 RxD
 Interface Receive Pa

 TxD
 Interface Send Path

Ready

IO-Link

OSSD Safety Output

Signal Signal Output

Safety Input

GND Ground CL Clock