Reflex Sensor

TC22PA3 Part Number

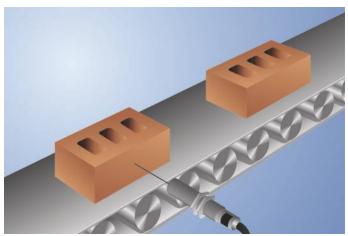
• Adjustable detection range

• Stainless steel housing

Technical Data

Optical Data			
Range	200 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	1500 Hz		
Response Time	330 µs		
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



M rsv

BK Black

ΒN

RD

OG

YE

GN

BU

VT

GY

WΗ White

Maintenance

Brown Red

Orange

Yellov

Green

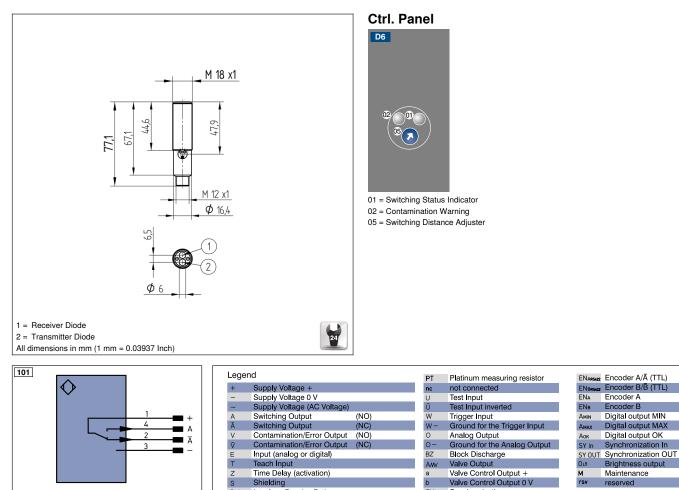
Blue

Violet

Grev

PK Pink GNYE Green/Yellow

rsv reserved Wire Colors according to DIN IEC 757



Teach Input Time Delay (activation)

Shielding Interface Receive Path

Output/Input programm

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

Z S

RDY

E/A

0

PoF

IN

Awv

SY-

SnR

La

Mag RES

EDM

E+

Synchronization

Receiver-Line

Emitter-Line

Rx+/- Ethernet Receive Path

Magnet activation

Input confirmation Contactor Monitoring

Tx+/- Ethernet Send Path

Ground for the Synchronization

Grounding Switching Distance Reduction

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

		Specifications are subject to change without notice

