Reflex Sensor

with Background Suppression

HT80PA3

Part Number

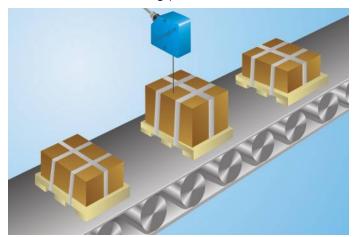


- Adjustable time delay
- Plug can be rotated
- Red light
- Triple beam correction principle

Technical Data

Optical Data	
Range	800 mm
Adjustable Range	250800 mm
Switching Hysteresis	< 5 %
Light Source	Red Light
Service Life (T = +25 °C)	100000 h
Max. Ambient Light	10000 Lux
Light Spot Diameter	see Table 1
Electrical Data	
Supply Voltage	1030 V DC
Current Consumption (Ub = 24 V)	40 mA
Switching Frequency	300 Hz
Response Time	1700 <i>μ</i> s
Off-Delay	01 s
Temperature Drift	< 5 %
Temperature Range	-2560 °C
Switching Output Voltage Drop	< 2,5 V
PNP Switching Output/Switching Current	200 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Overload Protection	yes
Protection Class	III
Mechanical Data	
Housing Material	Plastic
Degree of Protection	IP67
Connection	M12 × 1; 4-pin
PNP NO/NC antivalent	•
Connection Diagram No.	101
Control Panel No.	T1
Suitable Connection Technology No.	2
Suitable Mounting Technology No.	330

These sensors detect distance by measuring angles. They are particularly good at recognizing objects in front of any background. The color, shape and surface characteristics of the object have practically no influence on sensor switching performance.



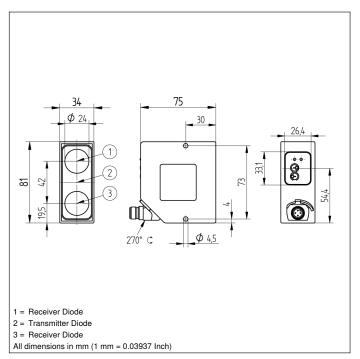


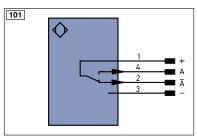












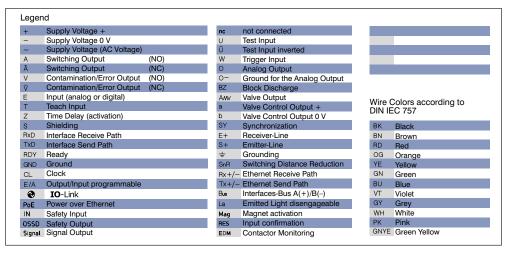
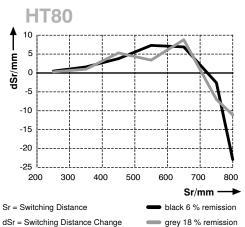


Table 1

Detection Range	300 mm	800 mm
Light Spot Diameter	10 mm	20 mm

Switching Distance Deviation

Typical characteristic curve based on Kodak white (90 % remission)



Ctrl. Panel



- 01 = Switching Status Indicator
- 05 = Switching Distance Adjuster
- 11 = ON-Delay/OFF-Delay Adjuster
- 32 = Contamination Warning/Error Warning