Reflex Sensor with Background Suppression

HW11PCV3

Part Number

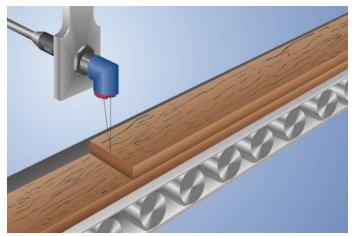


- Adjustable switching distance
- Electronic background suppression
- Red light
- Stainless steel housing

Technical Data

Optical Data		
Range	120 mm	
Adjustable Range	35120 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)	< 30 mA	
Switching Frequency	600 Hz	
Response Time	833 µs	
Temperature Drift	< 5 %	
Temperature Range	-2560 °C	
Switching Output Voltage Drop	< 2,5 V	
PNP Switching Output/Switching Current	200 mA	
PNP Contamination Output/Switching Current	50 mA	
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	
Contamination Output		
PNP NO/NC switchable		
Connection Diagram No.	105	
Control Panel No.	D5	
Suitable Connection Equipment No.	2	
Suitable Mounting Technology No.	150	

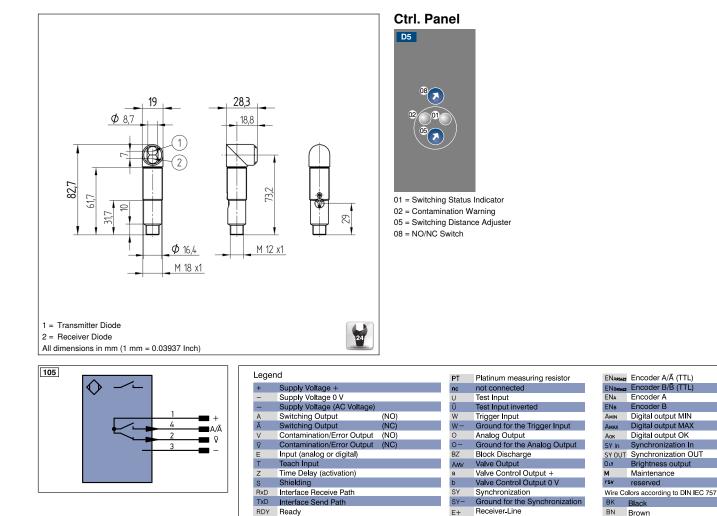
These sensors detect distance by measuring angles. They are particularly good at recognizing objects in front of any background. The color, shape and surface characteristics of the object have practically no influence on sensor switching performance.



Complementary Products PNP-NPN Converter BG2V1P-N-2M

Photoelectronic Sensors





Ground Clock

IO-Link

Power over Et

Safety Input

OSSD Safety Output

Signal Signal Output

Output/Input program

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

GND

CL

E/A

e

PoF

IN

Table	e 1

Emitter-Line

Rx+/- Ethernet Receive Path

Magnet activation

Input confirmation

Contactor Monitoring

Tx+/- Ethernet Send Path

Switching Distance Reductio

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

Grounding

SnR

La

Mag RES

EDM

Detection Range	60 mm	120 mm
Light Spot Diameter	2,5 mm	5 mm

ΒN

RD

OG

YE

GN

VT

GY

WΗ White

BU

Brown Red

Orange

Green

Blue

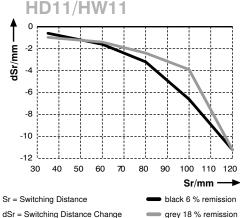
Violet

Grev

PK Pink GNYE Green/Yellow

Switching Distance Deviation

Typical characteristic curve based on white, 90 % remission





dSr = Switching Distance Change