Reflex Sensor with Background Suppression

HD11PC3

Part Number

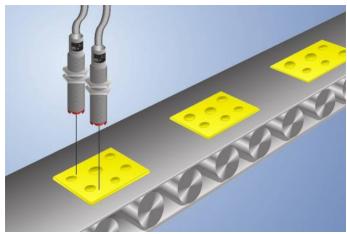


- Adjustable switching distance
- Electronic background suppression
- Red light
- Stainless steel housing

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	
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 switchable		
Connection Diagram No.	1013	
Control Panel No.	D5	
Suitable Connection Equipment No.	2	
Suitable Mounting Technology No.	150	

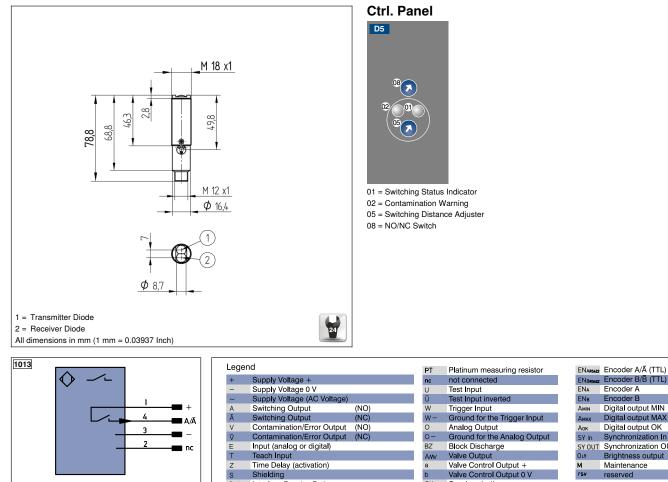
These sensors detect distance by measuring angles. They are particularly good at recognizing objects in front of any background. The color, shape and surface characteristics of the object have practically no influence on sensor switching performance.



Complementary Products

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





ENa	Encoder A	
ENв	Encoder B	
Amin	Digital output MIN	
Амах	Digital output MAX	
Аок	Digital output OK	
SY In	Synchronization In	
SY OUT	Synchronization OUT	
OLT	Brightness output	
м	Maintenance	
rsv	reserved	
Wire Colors according to DIN IEC 757		
BK	Black	
BN	Brown	
RD	Red	
OG	Orange	
YE	Yellow	
GN	Green	
BU	Blue	
VT	Violet	
GY	Grey	
WH	White	
PK	Pink	
GNYE	Green/Yellow	

Table 1

R7

Awv

SY-

SnR

La

Mag RES

EDM

E+

Synchronization Ground for the Synchronization

Grounding Switching Distance Reduction

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

Receiver-Line

Emitter-Line

Rx+/- Ethernet Receive Path

Magnet activation

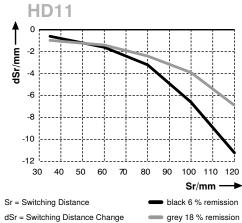
Input confirmation Contactor Monitoring

Tx+/- Ethernet Send Path

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

Switching Distance Deviation

Typical characteristic curve based on white, 90 % remission





nc

Т

S

RDY

GND

Ø

PoF

IN

CL E/A 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)

 RxD
 Interface Receive Pa

 TxD
 Interface Send Path

Ready

Ground Clock

IO-Link

Power over Eth

Safety Input 0SSD Safety Output Signal Signal Output

dSr = Switching Distance Change