

SDS5-5 SERIES INSTRUCTION MANUAL

CONTROLS

OUTPUT LED

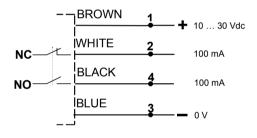
The yellow LED indicates the output status.

STABILITY LED

The green LED ON indicates that the received signal has a reserve greater than 30% compared to the output switching value.

The 4-turn trimmer can be used to adjust the operating distance; the distance increases turning the trimmer clockwise.

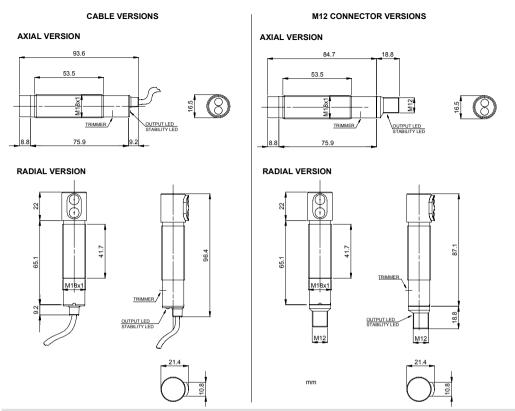
CONNECTIONS



M12 CONNECTOR



DIMENSIONS



TECHNICAL DATA

Power supply:	10 30 Vdc; reverse polarity protection		
Ripple:	2 Vpp max.		
Current consumption (output current excluded):	30 mA max.		
Output:	NC and NO, NPN or PNP; 30 Vdc max. (short-circuit protection)		
Output current:	100 mA max.		
Output saturation voltage:	1 V max NPN versions / 2 V max PNP versions		
Response time:	2.5 ms max.		
Switching frequency:	200 Hz max.		
Indicators:	OUTPUT LED (YELLOW) / STABILITY LED (GREEN)		
Setting:	operating distance 4-turn trimmer wiper idles		
Operating temperature:	-25 55 °C		
Storage temperature:	-25 70 °C		
Electric shock protection:	Class 2		
Cutoff distance adjustment range:	50 100 mm		
Operating distance:	from 20 50 mm to 0 100 mm depending from cutoff adjustment		
Emission type:	RED (660 nm)		
Ambient light rejection:	according to EN 60947-5-2		
Vibration:	0.5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6)		
Shock resistance:	11 ms (approx. 30 G) 6 shock for every axis (EN60068-2-27)		
LIGHT/DARK selection:	LIGHT mode on NO output		
Housing:	ABS UL 94V-O		
Optics head:	PVC		
Lenses:	Glass		
Protection class:	IP67 (TYPE 1 ENCLOSURE)		
Connections:	2 m cable Ø 5 mm / M12 4-pole connector		
Weight:	100 g. max. cable versions / 30 g. max. connector versions		

SETTING

Position the sensor and turn the operating distance trimmer to maximum.

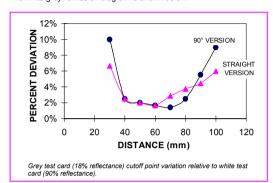
Place the target opposite the sensor at a slightly greater distance than

Turn the trimmer counterclockwise until the sensor switches.

Verify the adjustment moving the target closer and further the sensor: tune the adjustment if necessary.

It is recommended to operate with the stability LED turned ON.

The white/grey remission diagram is shown below:



DECLARATION OF CONFORMITY

We DATASENSOR S.p.A. declare under our sole responsibility that these products are conform to the 89/336 CEE, 73/23 CEE Directives and successive amendments.

DATASENSOR S.p.A. warrants its products to be free from defects.

DATASENSOR S.p.A. will repair or replace, free of charge, any product found to be defective during the warranty period of 36 months from the manufacturing date.

This warranty does not cover damage or liability deriving from the improper application of DATASENSOR products.

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826000263 Rev.C



SDS10-5 SERIES INSTRUCTION MANUAL

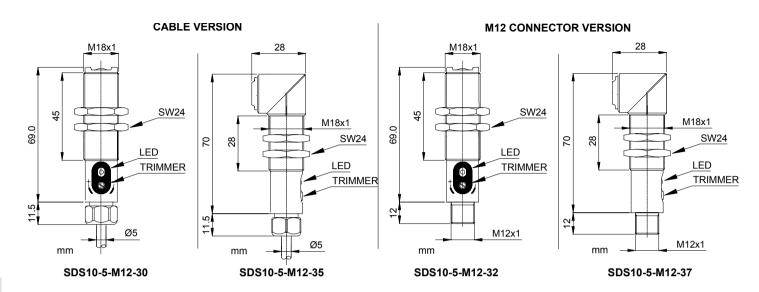
Photoelectric sensor with background suppression 120mm adj.

	OPTIC	OUTPUT	CONNECTION
SDS10-5-M12-30	straight	PNP	standard cable
SDS10-5-M12-32	straight	PNP	M12 connector
SDS10-5-M12-35	90°	PNP	standard cable
SDS10-5-M12-37	90°	PNP	M12 connector

TECHNICAL DATA

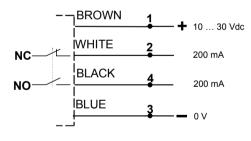
B	40 003/41	
Power supply:	10 30 Vdc	
B: 1	reverse polarity protected	
Ripple:	3 Vpp max.	
Current consumption	30 mA max.	
(output current excluded):		
Output:	NC and NO, PNP	
	(short circuit protection)	
Output current:	200 mA max.	
Output saturation voltage:	2.4 V max.	
Response time:	1 ms max.	
Switching frequency:	600 Hz max.	
Indicators:	OUTPUT LED (YELLOW)	
Setting:	trimmer, 18 turn	
Operating temperature:	-20 60°C	
Storage temperature:	-20 80°C	
Electrical shock protection:	Class 2	
Operating distance:	40 120 mm	
Emission type:	RED (660 nm)	
Hysteresis:	8% max.	
Humidity:	35 85% rH non condensing	
Ambient light rejection:	according to EN 60947-5-2	
Vibration:	0.5 mm amplitude, 10 55 Hz	
	frequency, for every axis (EN60068-2-6)	
Shock resistance:	11 ms (approx. 30 G) 6 shock for every	
	axis (EN60068-2-27)	
LIGHT/DARK selection:	LIGHT mode	
Housing:	Brass, nichel plated	
Protection class:	IP67	
Connections:	4 wires 3 m cable Ø 5 mm /	
	M12 4 pole connector	
Weight:	100 g. max.	

DIMENSIONS

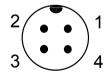


CONNECTIONS

CABLE VERSION



M12 CONNECTOR VERSION



WARRANTY

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826000452 Rev.C