

S62 SERIES INSTRUCTION MANUAL

CONTROLS

OUTPUT LED (yellow) (S62..A/B/C/F)

The yellow LED ON indicates the output status.

STABILITY LED (green) (S62..A/B/C/F)

The green LED permanently ON indicates a stable operating condition, where the signal received has a safety margin higher than 30% respect to the output switching value.

The sensor is ready to function correctly.

POWER ON LED (green) (S62..G)

The green LED ON indicates the powering status and the laser emission presence.

SENSIBILITY TRIMMER (ADJ.) (S62..A/B/C/F)

A mono-turn trimmer adjusts the sensitivity and the sensor operating distance.

Please refer to "SETTING" paragraph for the correct use procedure.

DARK/LIGHT TRIMMER (S62..RX/PN)

The LIGHT/DARK mode is selected using a mono-turn trimmer.

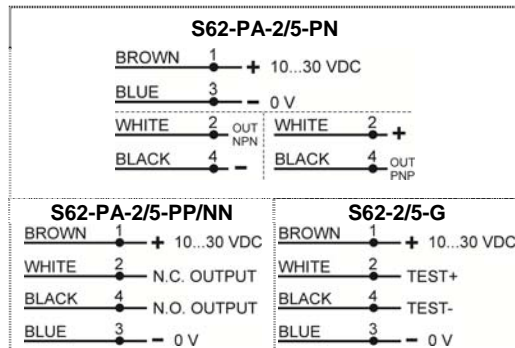
LIGHT MODE: clockwise rotation

DARK MODE: counter-clockwise rotation.

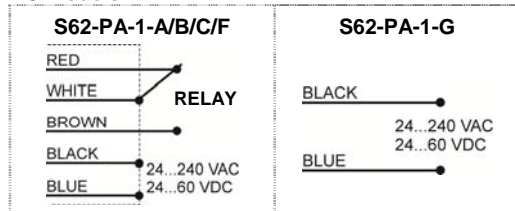
WARNING: the maximum mechanical rotation range of the trimmer is 240°. Do not force over of the maximum and minimum positions.

CONNECTIONS

DC models:



AC models:



TECHNICAL DATA

	S62-PA-2/5	S62-PA-1
Power supply:	10 ... 30 VDC- Class 2 (UL508)	24...240 VAC / 24...60 VDC
Ripple:	2 Vpp max.	10 % max
Current consumption (output current excluded):	< 30 mA	< 3 VA
Outputs:	S62..PP/NN: PNP or NPN N.A./N.C. 30 VDC S62..PN: NPN/PNP; 30 VDC max (short-circuit protection)	Electromechanical SPDT 250 VAC / 30 VDC
Output current:	100 mA max (overload and overvoltage protection)	2 A max. (resistive load)
Output saturation voltage:	≤ 2 V	-
Response time:	S62...A/B/C: 500 μs max. S62...F/G: 1 ms	25 ms
Switching frequency:	S62...A/B/C: 1 kHz S62...F/G: 500Hz	20Hz
Emission type:	RED (640 nm) (S62..A/B/C/G)	
Operating distance (typical values):	S62...B: 0.1...8 m on R2 (Ø63 mm reflector) (EG = 2) S62...A: 13m on R2 (Ø63 mm reflector) (EG = 2) S62...C01: 90 cm on 90% White target (EG = 2) S62...C11: 200 cm on 90% White target (EG = 2) S62...F/G: 0...25 m	
Indicators:	S62...A/B/C/F: OUTPUT LED (YELLOW) / STABILITY LED (GREEN) S62...G: POWER ON LED (GREEN)	
Adjustment:	Mono-turn sensitivity adjustment trimmer Mono-turn light/dark trimmer (S62..RX/PN)	
Operating temperature:	-10 ... 55 °C	
Storage temperature:	-20 ... 70 °C	
Dielectric strength:	500 VAC, 1 min between electronics and housing	
Insulating resistance:	> 20 MΩ, □500 VDC between electronics and housing	
Ambient light rejection:	according to EN 60947-5-2	
Vibrations:	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)	
Shock resistance:	11 ms (30 G) 6 shock for every axis (EN60068-2-27)	
Housing material:	ABS	
Lens material:	PMMA window, polycarbonate lens	
Mechanical protection:	IP67	
Connections:	2 m cable Ø 4 mm / M12 4-pole connector	2 m cable Ø 5 mm
UL requirements:	VDC models: they are intended to be connected to a Class 2 transformer or class 2 power supply. VAC models: these devices shall be connected to a power-supply or system, including filters or air-gaps, of overvoltage category II ("load level – secondary circuit of a protected utility transformer"), suitable to control over-voltages at the maximum "rated impulse withstand voltage peak of 1.2KV and with a short-circuit power limit at max 500VA.	
Weight:	90 g. max. cable versions / 40 g. max. connectors versions	

SETTINGS

S62..A/B setting: Position the sensor and reflector on opposite sides. Turn the sensitivity trimmer to maximum. Find the points where the yellow LED (OUT) in both vertical and horizontal positions and fix the sensor in the centre between these points. Optimum operation is obtained when both LEDs switch ON. If necessary, reduce sensitivity using the trimmer, in order to detect very small targets. In order to improve alignment, repeat the procedure detailed above whilst progressively reducing the sensitivity.

S62..C setting: Position the sensor and turn the sensitivity trimmer at minimum: the yellow LED is OFF (light mode). Place the target opposite the sensor. Turn the sensitivity trimmer clockwise until the yellow LED turns ON (Target detected state, pos.A). Remove the target, the yellow LED turns OFF. Turn the trimmer clockwise until the yellow LED turns ON (Background detected state, pos.B). The trimmer reaches maximum if the background is not detected. Turn the trimmer in intermediate position C, between the two positions A and B. The green LED must be ON.

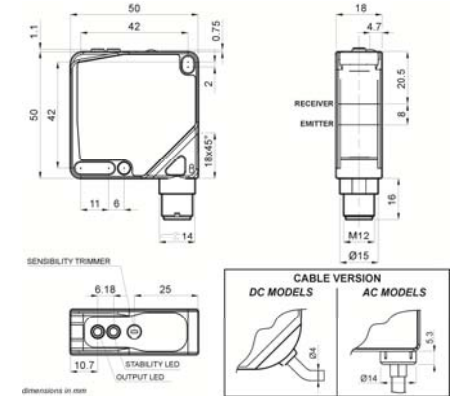
S62...F/G setting: Position the sensors on opposite sides. Turn the sensitivity trimmer to maximum. Find the points where the yellow LED (OUT) is switched ON and OFF in both vertical and horizontal positions, and fix the sensor in the centre between these points. Optimum operation is obtained when both LEDs switch ON.

If necessary, reduce sensitivity using the trimmer, in order to detect very small targets.

In order to improve alignment, repeat the procedure detailed above whilst progressively reducing the sensitivity.



DIMENSIONS



INSTALLATION

The sensor can be positioned by means of the two housing holes using two screws (M4x35 or longer, 1.2Nm maximum tightening torque).

Various orientable fixing brackets to ease the sensor positioning are available (please refer to the accessories listed in the general catalogue). The operating distance is measured from the front surface of the sensor optics. The M12 connector can be oriented at two different positions using the specific fastening spring and rotating the block of 180°.



TEST FUNCTION (S62...G)

The TEST+ and TEST- inputs can be used to switch off the emitter light and verify that the system is correctly operating: the receiver output should switch when the test is activated while the beam is uninterrupted: the inputs activating voltage range is 12...30 VDC, respecting the polarity. The emission is switched OFF connecting TEST+ to VDC and TEST- to 0V.

The sensors are NOT safety devices, and so MUST NOT be used in the safety control of the machines where installed.

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The warranty period for this product is 36 months. See General Terms and Conditions of Sales for further details.

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S62-PL...B Laser

Polarised retroreflex



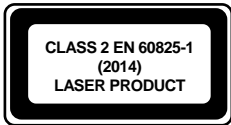
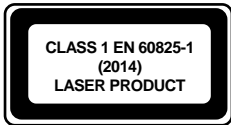
S62-PL...C Laser

Diffuse proximity

INSTRUCTION MANUAL

S62..B

S62..C



CONTROLS

OUTPUT LED (yellow)

The yellow LED ON indicates the following output status: N.O. closed and N.C. open.

POWER ON LED (green)

The green LED ON indicates the sensor powering status and laser emission presence.

SENSITIVITY TRIMMER (ADJ.)

Monoturn trimmer that adjusts the sensitivity and thus the sensor operating distance. Please refer to "SETTING" paragraph for the correct use procedure.

WARNING: the maximum mechanical trimmer rotation is equal to 240°. Do not apply excessive torque over the maximum and minimum positions.

INSTALLATION

The sensor can be positioned by means of the three housing's holes using two screws (M4x25 or longer, 1.5 Nm maximum tightening torque) with washers. Various orientable fixing brackets to ease the sensor positioning are available (please refer to the accessories listed in the general catalogue). The operating distance is measured from the front surface of the sensor optics. The M12 connector can be oriented at two different positions using the specific fastening spring and rotating the block to 180°.

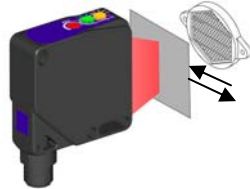


TECHNICAL DATA		
	S62..B	S62..C
Power supply:	10 ... 30 Vcc	
Ripple:	2 Vpp max.	
Consumption (output current excluded):	30 mA max	
Outputs:	PNP or NPN N.O. / N.C.; 30 Vdc max. (short-circuit protection)	
Output current:	100 mA max (overload and overvoltage protection)	
Output saturation voltage:	≤ 2 V	
Response time:	200 μs	
Switching frequency:	2.5 kHz	
Emission type:	RED LASER Class 1 EN 60825-1 (2014)	RED LASER (λ = 645...665 nm): Class 2 EN 60825-1 (2014) Class II CDRH 21 CFR PART 1040.10 Pulsed emission: pot. max ≤ 5 mW; pulse duration = 5 μs; frequency max = 32 KHz
Operating distance (typical values):	refer to TAB.1	1m on 90% white target (EG2)
Min. detectable object dimension:	0.5 mm at 0.5m (minimum spot)	
Indicators:	OUTPUT LED (YELLOW) / POWER ON LED (GREEN)	
Setting:	Monoturn sensitivity adjustment trimmer	
Functioning temperature:	-10 ... 55 °C	
Storage temperature:	-20 ... 70 °C	
Dielectric strength:	500 Vac 1 min., between electronics and housing	
Insulating resistance:	>20 MΩ 500 Vdc, between electronics and housing	
Ambient light rejection:	according to EN 60947-5-2	
Vibrations:	0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6)	
Shock resistance:	11 ms (30 G) 6 shock for every axis (EN60068-2-27)	
Housing material:	ABS	
Lens material:	PMMA window, polycarbonate lenses	
Mechanical protection:	IP67	
Connections:	M12 4-pole connector	
Weight:	40 g. max.	

S62...B SETTING

S62...B alignment:

- Position the sensor and reflector aligned on opposite sides at the desired distance.
- Turn to maximum the sensitivity adjustment trimmer (ADJ.) (clockwise).
- Determine the powering on and powering off points of the yellow LED (OUT) by moving vertically and horizontally the sensor and mount the sensor in the middle of the points found.



Control:

- Enter laterally the object inside the operating field and control that the yellow LED turns on.
- Remove the object and check that the yellow LED turns off immediately

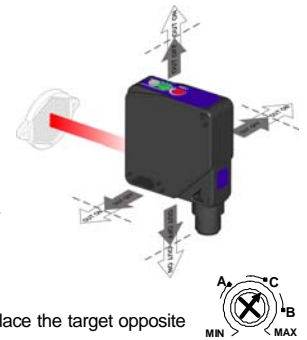
S62...C setting:

Position the sensor and turn the sensitivity trimmer at minimum: the yellow LED is OFF. Place the target opposite the sensor.

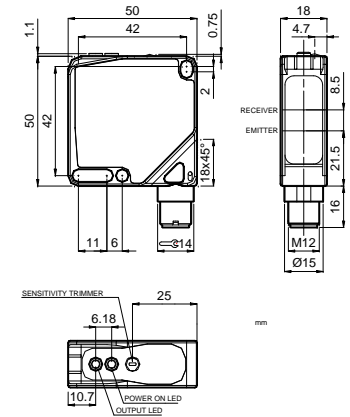
Turn the sensitivity trimmer clockwise until the yellow LED turns ON (Target detected state, pos.A).

Remove the target, the yellow LED turns OFF. Turn the trimmer clockwise until the yellow LED turns ON (Background detected state, pos.B). The trimmer reaches maximum if the background is not detected.

Turn the trimmer in intermediate position C, between the two positions A and B. The green LED must be ON.



DIMENSIONS



SAFETY PRECAUTIONS

All the electric and mechanical safety regulations have to be respected during sensor functioning. The sensor has to be protected against mechanical damage. Apply the labels supplied in a visible position near the laser emission beam.

S62..C:



Do not stare directly into the laser beam!
Do not point the laser beam towards people!
Eye irradiation superior to 0.25 seconds is dangerous. Please refer to the Class 2 Standard (EN60825-1). These sensors can not be used for safety applications!

The sensors are NOT safety devices, and so MUST NOT be used in the safety control of the machines where installed.

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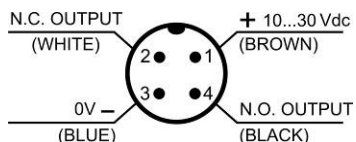
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CONNECTIONS

M12 connector

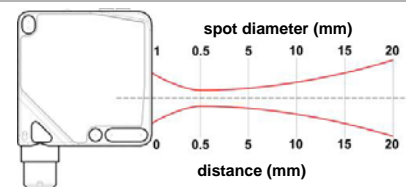


S62...B PERFORMANCES

TAB.1: Operating distances (m)

REFLECTOR (mm)				
R1 (Ø31)	R2 (Ø63)	R6 (60x40)	R7 (51X51)/R20 (Ø63)	R8 (19X10)
0.3 ... 16	0.3 ... 20	0.4 ... 22	0.3 ... 22	0.2 ... 2

Note: The use of the RT 3970 reflecting tape is not suggested.





S62-PL...M Laser
Background suppression

INSTRUCTION MANUAL



CONTROLS

OUTPUT LED (yellow)

The yellow LED ON indicates the output status: N.O. closed and N.C. open.

POWER ON LED (green)

The green LED ON indicates the sensor powering status and laser emission presence.

DISTANCE ADJUSTMENT TRIMMER (ADJ.)

The multiturn trimmer with clutch (6 turn) adjusts the suppression distance through the mechanical variation of the optic triangulation angle. The operating distance increases rotation the trimmer shaft in a clockwise direction. Please refer to "SETTING" paragraph for the correct use procedure.

POSITION INDICATOR

This indicator has a scale numbered from 1 to 6 that allows the precise adjustment of the suppression distance on the entire operating range. Please refer to "SETTING" paragraph for the correct use procedure.

INSTALLATION

The sensor can be positioned by means of the three housing's holes using two screws (M4x25 or longer, 1.5 Nm maximum tightening torque) with washers.



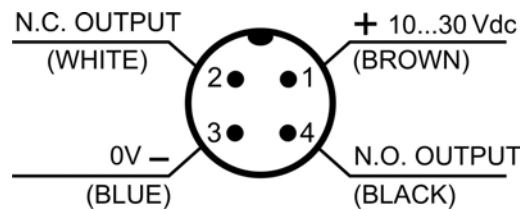
Various orientable fixing brackets to ease the sensor positioning are available (please refer to the accessories listed in the general catalogue).

The operating distance is measured from the front surface of the sensor optics.

The M12 connector can be oriented at two different positions using the specific fastening spring and rotating the block to 180°.

CONNECTIONS

M12 connector



TECHNICAL DATA		
	S62-PL-M01...	S62-PL-M11...
Power supply:	10 ... 30 VDC	
Ripple:	2 Vpp max.	
Consumption (output current excluded):	30 mA max	
Outputs:	PNP or NPN N.O. / N.C.; 30 VDC max. (short-circuit protection)	
Output current:	100 mA (overload and overvoltage protection)	
Output saturation voltage:	≤ 2 V	
Response time:	140 μs	200 μs
Switching frequency:	3.5 kHz	2.5 kHz
Emission type:	RED LASER (λ = 645...665nm): Class 1 EN 60825-1 (2014), Class II CDRH 21 CFR PART 1040.10 Pulsed emission: pot. max ≤ 5mW; pulse duration = 5μs; frequency = 14KHz (mod. M01) / 10KHz (mod. M11)	
Focalisation point :	60 mm	150 mm
Spot dimension:	< 0.2 mm (at 60 mm)	< 0.4 mm (at 150 mm)
Operating distance (typical values):	30...150 mm	50...350 mm
Adjustment:	4-turn distance adjustment trimmer	6-turn distance adjustment trimmer
Difference (90% white/ 4% black):	< 4 % (see DETECTION DIAGRAM)	
Hysteresis (90% white):	< 1 %	
Indicators:	OUTPUT LED (YELLOW) / POWER ON LED (GREEN)	
Functioning temperature:	-10 ... 55 °C	
Storage temperature:	-20 ... 70 °C	
Dielectric strength:	500 Vac 1 min., between electronics and housing	
Insulating resistance:	>20 MΩ 500 Vdc, between electronics and housing	
Ambient light rejection:	According to EN 60947-5-2	
Vibrations:	0.5 mm amplitude, 10 ... 55 Hz frequency, for each axis (EN60068-2-6)	
Shock resistance:	11 ms (30 G) 6 shock for each axis (EN60068-2-27)	
Housing material:	ABS	
Lens material:	PMMA window; PC lens	
Mechanical protection:	IP67	
Connections:	M12 4-pole connector	
Weight:	40 g. max.	

SETTING

Suppression distance setting

1. Object detection

Position object to detect in front of the sensor at the distance required. Turn distance adjustment trimmer (ADJ) to minimum: yellow LED OFF and green LED ON.



Rotate trimmer in a clockwise direction until the yellow LED and green LED turn ON. *Object detection condition* (A status of position indicator).



A

2. Background suppression

Remove object and ensure that the background is in front of the sensor: yellow LED OFF and green LED ON.



Rotate trimmer in a clockwise direction until the yellow LED and green LED turn ON: *background detection condition* (B status of position indicator).



B

The trimmer reaches maximum level with yellow LED OFF if the background is outside the operating range.

Rotate trimmer in an anticlockwise direction until yellow LED turns OFF and green LED ON: *condition where background is outside operating range* (C status of position indicator).



C

3. Setting and control

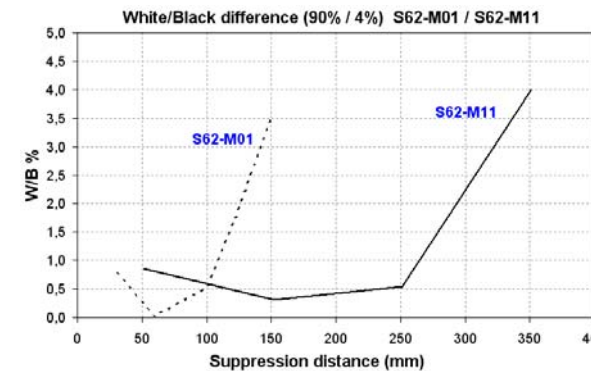
Rotate trimmer in an anticlockwise direction until the indicator reaches an intermediate point between position A and C.



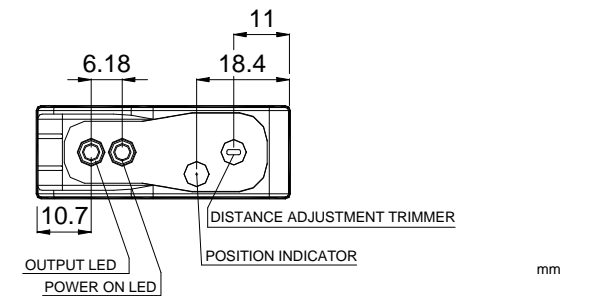
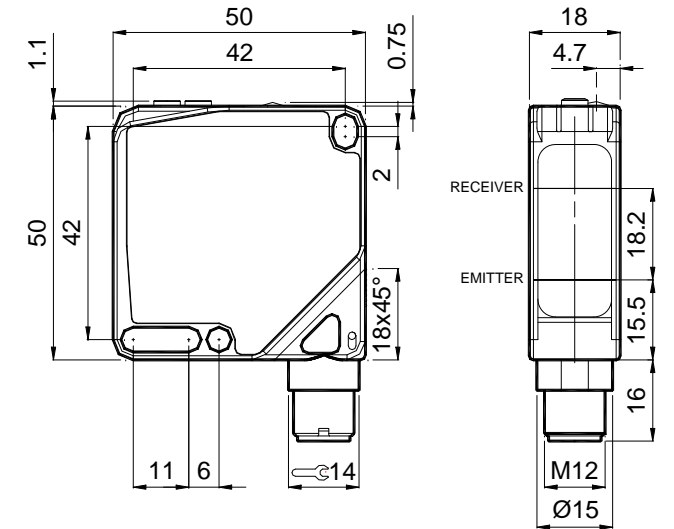
If position A and C are close to each other, leave trimmer on position C. The sensor is now ready to function correctly and in stable conditions.



DETECTION DIAGRAM



DIMENSIONS



SAFETY PRECAUTIONS

All the electric and mechanical safety regulations have to be respected during sensor functioning. The sensor has to be protected against mechanical damage. Apply the labels supplied in a visible position near the laser emission beam.

The sensors are NOT safety devices, and so MUST NOT be used in the safety control of the machines where installed.

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S62...M Background suppression

INSTRUCTION MANUAL

CONTROLS

OUTPUT LED (yellow)

The yellow LED ON indicates that the N.O. output is closed and the N.C. output is open.

STABILITY LED (green) (S62...M2/M3)

When permanently ON, the green LED indicates a normal operating condition where the received signal has a safety margin superior to 30% respect to the output switching value. The sensor is ready to function correctly (stability condition).

POWER ON LED (green) (S62...M0/M1)

The green LED ON indicates the powering status and the laser emission presence.

DISTANCE ADJUSTMENT TRIMMER (ADJ.)

A 6-turn trimmer allows the background suppression distance adjustment through a mechanical variation of the optic triangulation angle. The operating distance increases, rotating the screws in a clockwise direction. Please refer to the "SETTING" paragraph for acquisition or setup procedure indications.

POSITION INDICATOR

This indicator presents a scale numbered from 1 to 6 that allows a precise adjustment of the suppression distance in the entire operating range. Please refer to the "SETTING" paragraph for use indications.

TIMER ADJUSTMENT TRIMMER (S62...M05/M15/M25/M35)

This control allows to vary the output delay deactivation from 0 to 1 sec. Please refer to "TIMER FUNCTIONS" paragraph for use indications.

DARK/LIGHT TRIMMER (S62...M01/M11-PN)

The LIGHT/DARK mode is selected using a mono-turn trimmer.

LIGHT MODE: clockwise rotation

DARK MODE: counter-clockwise rotation.

WARNING: the maximum mechanical rotation range of the trimmer is 240°. Do not force over of the maximum and minimum positions.

INSTALLATION

The sensor can be positioned by means of the three housing's holes using two screws (M4x25 or longer, 1.5Nm max. tightening torque) with washers.

Various orientable fixing brackets to ease the sensor positioning are available (please refer to the general catalogue).

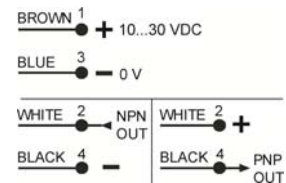
The operating distance is measured from the front surface of the sensor optics.

The M12 connector can be oriented at two different positions using the specific fastening spring and rotating the block of 180°.

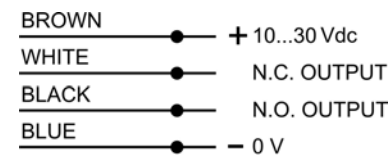


CONNECTIONS

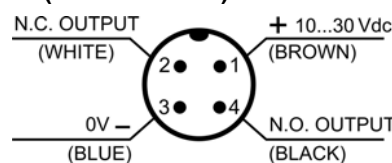
S62-PA-2/5...PN



S62-PA-2...PP/NN



S62-PA-5...PP/NN (M12 connector)



TECHNICAL DATA

	S62...M0-PP/PN/NN	S62...M1-PP/PN/NN	S62...M2-PP/PN/NN	S62...M3-PP/PN/NN
Power supply:	10 ... 30 VDC			
Ripple:	2 Vpp max.			
Consumption (output current excluded):	40 mA max.			
Outputs:	S62...PP/NN: PNP or NPN N.A./N.C. 30 VDC / S62...PN: NPN/PNP; 30 VDC max (short-circuit protection)			
Output current:	100 mA (overload and overvoltage protection)			
Output saturation voltage:	≤ 2 V			
Response time:	500 μs	1 ms	1 ms	1,5 ms
Switching frequency:	1 kHz	500 Hz	500 Hz	330 Hz
Emission type:	RED (660 nm)		INFRARED (880 nm)	
Spot dimension:	6x6 mm (at 200 mm)	15x15 mm (at 400 mm)	200x200 mm (at 2000 mm)	
Operating distance (typical values):	30...300 mm	60...600 mm	60...1200 mm	200...2000 mm (recommended target 400x400mm)
Adjustment:	Multiturn distance adjustment trimmer / Timer adjustment trimmer (S62...M05/M15/M25/M35)			
DARK/LIGHT selection:	mono-turn trimmer (S62...M01/M11-PN)			
Difference (90% white / 4% black):	< 8 %	< 12 %	< 25 %	< 30 %
Hysteresis (90% white):	< 5 %			< 20 %
Indicators:	OUTPUT LED (YELLOW) / STABILITY LED (GREEN)		OUTPUT LED (YELLOW) / POWER ON LED (GREEN)	
Operating temperature:	-10 ... 55 °C			
Storage temperature:	-20 ... 70 °C			
Dielectric strength:	500 VAC 1 min., between electronics and housing			
Insulating resistance:	>20 MΩ 500 VDC, between electronics and housing			
Ambient light rejection:	According to EN 60947-5-2			
Vibrations:	0.5 mm amplitude, 10 ... 55 Hz frequency, for each axis (EN60068-2-6)			
Shock resistance:	11 ms (30 G) 6 shock for each axis (EN60068-2-27)			
Housing material:	ABS			
Lens material:	PMMA window; PC lens			
Mechanical protection:	IP67			
Connections:	2 m cable Ø 4 mm / M12 4-pole connector			
UL requirements:	they are intended to be connected to a Class 2 transformer or class 2 power supply			
Weight:	90 g. max. cable vers. / 40 g. max. connector vers.			

SETTING

Suppression distance setting

1. Object detection

Position object to detect in front of the sensor at the distance required. Turn distance adjustment trimmer (ADJ) to minimum: yellow LED OFF and green LED ON.



Rotate trimmer in a clockwise direction until the yellow LED and green LED turn ON. Object detection condition (A status of position indicator)



2. Background suppression

Remove object and ensure that the background is in front of the sensor: yellow LED OFF and green LED ON.



Rotate trimmer in a clockwise direction until the yellow LED and green LED turn ON: background detection condition (B status of position indicator).



The trimmer reaches maximum level with yellow LED OFF if the background is outside the operating range.

Rotate trimmer in an anticlockwise direction until yellow LED turns OFF and green LED ON: condition where background is outside operating range (C status of position indicator).



3. Setting and control

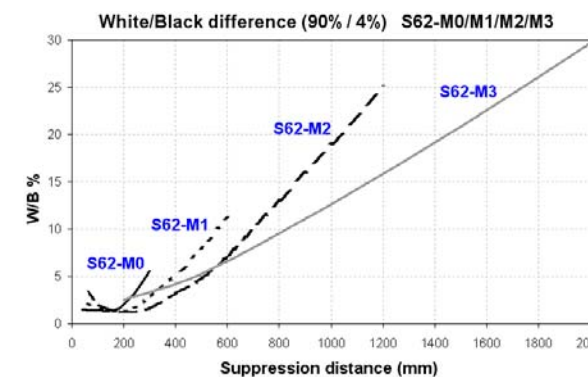
Rotate trimmer in an anticlockwise direction until the indicator reaches an intermediate point between position A and C.



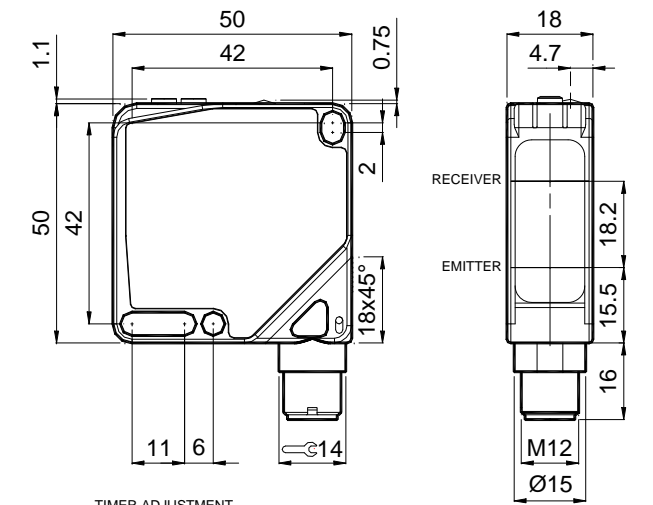
If position A and C are close to each other, leave trimmer on position C. The sensor is now ready to function correctly and in stable conditions:



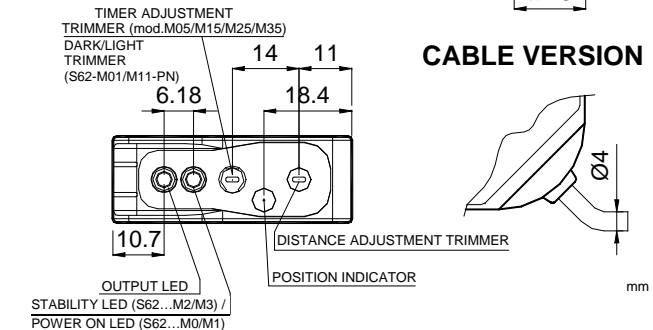
DETECTION DIAGRAM



DIMENSIONS

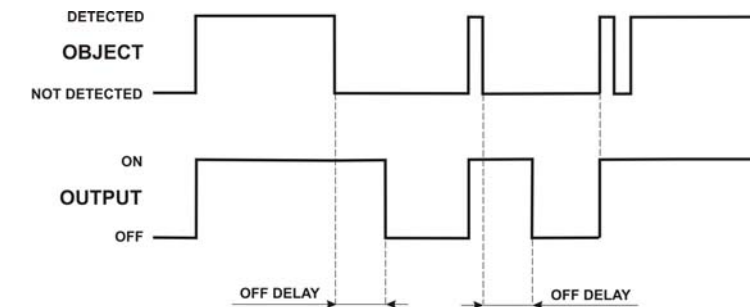


CABLE VERSION



TIMER FUNCTION (S62...M05/M15/M25)

The timer function allows to adjust the output deactivation delay when the object is outside the detection area. The delay extends the output activation allowing the slower interface systems to detect shorter pulses.



The delay adjustment is carried-out manually using the Timer adjustment trimmer. Clockwise rotation increase the delay from 0 to a max. 1 sec. value.



The sensors are NOT safety devices, and so MUST NOT be used in the safety control of the machines where installed.

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Helpful links at www.datalogic.com: [Contact Us](#), [Terms and Conditions](#), [Support](#).

The warranty period for this product is 36 months. See General Terms and Conditions of Sales for further details.

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