ODATALOGIC

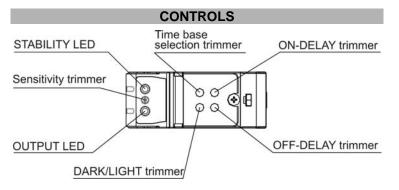


S300-PR...B Polarised retroreflex



S300-PR...C Diffuse proximity

INSTRUCTION MANUAL



OUTPUT LED (yellow)

The yellow LED ON indicates the output status.

STABILITY LED (green)

The green LED ON indicates that the sensor has working with a enough safety

SENSITIVITY TRIMMER

A mono-turn trimmer adjusts the sensitivity and the sensor operating distance The operating distance increases, rotating the screws in a clockwise direction.

DARK/LIGHT TRIMMER

A mono-turn trimmer to select dark/light mode.

ON-DELAY AND OFF-DELAY TRIMMER (only versions with timing functions) Mono-turn trimmers to setting output activation and disactivation delay time. Please refer to "TIMING FUNCTIONS" paragraph for for procedure indications.

TIME BASE SELECTION AND ONE-SHOT TRIMMER (only versions with timing functions)

A mono-turn trimmer with three operation position: it allows to select two different delay time base (SHORT BASE and LONG BASE) or ONE SHOT. Please refer to "TIMING FUNCTIONS" paragraph for procedure indications.

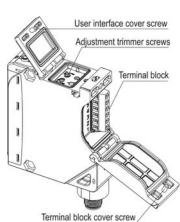
WARNING: the maximum mechanical rotation range of the trimmer is 240°. Do not force over of the maximum and minimum positions.

INSTALLATION

The sensor can be positioned by means of the two housing holes using two screws (M5x35 or longer, 1.2Nm maximum tightening torque). The sensor bottom surface has been provided of two mechanical threaded insert M5x5.5. These metal insert are commercial components.

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.

For a correct use, the sensor must be installed orthogonal respect the direction of the object to detect like show in the figure.



Tighten all screws surely to maintain the water-proof characteristics for IP67 (IFC/FN60529)

Excessive tightening causes damage. Tighten the screws within the tightening torque range shown in the

TIGHTENING TORQUE (Nm)	
Terminal screws(6pc)	0.5 max
Covers screws	0.50.8

The cable gland assure mechanical retention compliant with EN50262.

CABLE DIAMETER	LOAD (N)
4,58mm	30
810mm	42

TECHNICAL DATA

AC MODELS	S300-PR-1-B/C	DC MODELS	S300-PR-2/5-B/C
Power supply:	24240 VAC / 2460 VDC	Power supply:	1030 VDC Class 2 (UL508
Ripple:	10 % max	Ripple:	10 % max
Current consumption (output current excluded):	< 3 VA	Current consumption (output current excluded):	< 30 mA
Outputs:	Electromechanical SPDT: 250 VAC, 30 VDC	Outputs:	PNP / NPN open collector R_pull-up/down = $47K\Omega$
		Output current:	100 mA (resistive load)
Output current:	Max 3 A (resistive load)	Output saturation voltage:	2.4 V max
		Diagnostic functions	PNP ALARM output / Test+ ip
Response time:	20 ms	Response time:	1 ms
Switching frequency:	25 Hz	Switching frequency:	500 Hz
Weight:	150 g	Weight:	140 g
AtEx 2014/34/EU:	II 3G EX nA II T6 ; II 3D EX tD A22 IP67 T85°C	AtEx 2014/34/EU:	II 3G EX nA II T6 ; II 3D EX tD A22 IP67 T85°C

Common data			
	S300 B	S300 C	
Emission type:	RED LED (660nm)	INFRARED LED (880nm)	
Operating distance (typical value):	20m (EG2), 22m (EG1) on R5 reflector	3,5m on 90% white target (EG2), 5M (EG1)	
Indicators:	OUTPUT LED (YELLOW),	STABILITY LED (GREEN)	
Adjustment:		Sensitivity trimmer / DARK/LIGHT trimmer Versions with timing functions: time base selection and one shot trimmer / ON DELAY trimmer / OFF DELAY trimmer	
Time base (Versions with timing functions):	SHORT BASE: 02 sec,	SHORT BASE: 02 sec, LONG BASE: 010 sec	
Operating temperature:	-4055 °C		
Storage temperature:	-4070 °C		
Dielectric strength:	: 1500 VAC, 1 min between electronics and housing		
Insulating resistance:	> 20 M Ω , 500 VDC between electronics and housing		
Ambient light rejection:	EN 60947-5-2		
Vibration:	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:	PBT 30% Glass fiber-reiforced		
Lenses:	frontal window and lens in PC		
Protection class:	IP67 (IEC / EN60529) / cable gland EN50262		
UL requirements:	60-70°C copper conductor 24-20 AWG; TYPE 1 ENCLOSURE		
Connections:	see the "CONNECTIONS" paragraph		

CONNECTIONS

AC MODELS	DC MODELS	
N.O. 6	PNP 6	
COM 5	NPN 5	
N.C. 4	ALARM 4	
3	TEST + 3	
N 2 24240 VAC/	- 2	
L 1 2460 VDC	+ 1 1030 VDC	
M12 CONNECTOR (only DC models)		
ALARM OUTPUT +1030 VDC		
(WHITE) 2 1 (BROWN)		
(20.04)		
OVPNP OUTPUT		
(BLUE)	(BLACK)	

Terminal block versions (S300-PR-1/2)

Use a cable of 4,5 to 10 mm in diameter to ensure water- and dust-proof characteristics. The trasversal section of the cable must be between 16 and 26AWG. The length of conductor peel must be 6mm and the cable peel must be



> To favour the cable connection it is possible remove (and then replace) the terminal block cover when it is in the maximum opening position (like showned in the figure).

> Turn off the power supply before wiring. Connect correctly to prevent damage. At the end of the connections, screw the cable gland decisively to lock the cable.

Close the terminal block cover with the screw.

M12 connector versions (S300-PR-5)

The connector wires are just connected like show in the previous figure. It is possible change the wiring and use other functionality (NPN output, TEST+ input).

SETTING

Sensitivity setting (S300..B)

Position the sensor and reflector 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.

Sensitivity setting (S300..C)

Position the sensor and turn the sensitivity trimmer at minimum: the yellow LED is OFF (litgh 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.

DIAGNOSTIC FUNCTIONS

S300 has the following diagnostic functions to verify the correct operation on

TEST+ input (only S300-PR-2/5)

The TEST+ input can be used to inhibit the emitter and verify that the system is correctly operating. The TEST function is activated if the TEST+ input is connected to a voltage between 10...30V, whereas if the TEST+ input is connected to GND or it is not connected the function is disactivated.

Activating the TEST while an object (C)/reflector (B) is in front of the sensor (output ON in light mode), the output switches from ON to OFF, testing the total operation. Activating the TEST whithout an object (C) in front of the sensor (output OFF in light mode), the outpt switches from OFF to ON, testing only the output operation.

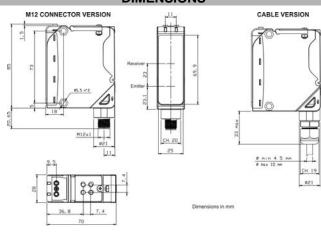
ALARM output (only S300-PR-2/5)

The alarm output switches ON whenever the received signals remains without a safety margin (greater than 30% compared to the output switching level).

In C model the ALARM output is activated when the sensor detects an object in instability conditions (stability LED OFF, OUT LED ON) for 10 times consecutively. If the commutations number is lower, the count down is reset and restart only in instability condition. The ALARM output remain ON until there is a commutation in stability condition

In B model the ALARM output is activated when the received signal remains without a safety margin for more than 3 seconds.

DIMENSIONS

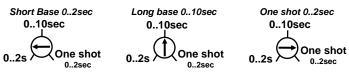


TIMING FUNCTIONS





The TIME BASE SELECTION trimmer allows to select the time base or the ONE SHOT function



Selecting the short base the time setting of ON delay and OFF delay trimmer is in the range 0..2sec, selecting long base is in the range 0..10sec

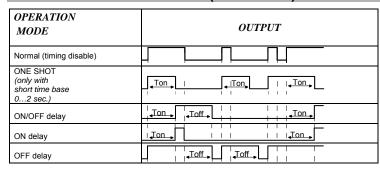
To allow a better setting of little delay, the variation of ON and OFF delay are not linear with mechanical regulation of the trimmer: until half rotation the regulation is thiner, whereas from half to full scale the regulation is faster.

The follow figure indicates the values of initial, middle and full scale delay of ON and OFF delay trimmer in the two different selectable time base:



The TIME BASE SELECTION trimmer has a third position to select ONE SHOT mode. The ONE SHOT duration is selectable by ON DELAY trimmer with short time base (0...2 sec). In this mode the OFF delay trimmer is disabled.

TIMING DIAGRAM (S300-x-xxxT)



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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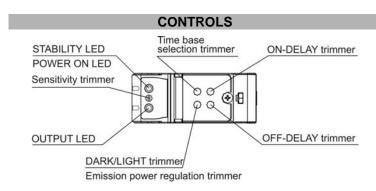


S300...F Receiver



S300...G **Emitter**

INSTRUCTION MANUAL



OUTPUT LED (yellow) (S300...F)

The vellow LED ON indicates the output status.

STABILITY LED (green) (S300...F)

The green LED ON indicates that the sensor has working with a enough safety

POWER ON LED (\$300...G)

The green LED indicates that the sensor is operating.

SENSITIVITY TRIMMER (\$300...F)

A mono-turn trimmer adjusts the sensitivity and the sensor operating distance. The operating distance increases, rotating the screws in a clockwise direction.

DARK/LIGHT TRIMMER (\$300...F)

A mono-turn trimmer to select dark/light mode

EMISSION POWER REGULATION TRIMMER (\$300...G)

A mono-turn trimmer to select the emission power.

ON-DELAY AND OFF-DELAY TRIMMER (\$300...F06)

Mono-turn trimmers to setting output activation and disactivation delay time. Please refer to "TIMING FUNCTIONS" paragraph for for procedure indications.

TIME BASE SELECTION AND ONE-SHOT TRIMMER (\$300...F06)

A mono-turn trimmer with three operation position: it allows to select two different delay time base (SHORT BASE and LONG BASE) or ONE SHOT. Please refer to "TIMING FUNCTIONS" paragraph for procedure indications.

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

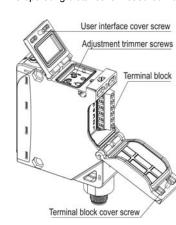
INSTALLATION

The sensor can be positioned by means of the two housing holes using two screws (M5x35 or longer, 1.2Nm maximum tightening torque).

The sensor bottom surface has been provided of two mechanical threaded insert M5x5,5. These metal insert are commercial components.

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.



Tighten all screws surely to maintain the water-proof characteristics for IP67 (IEC/EN60529).

Excessive tightening causes damage. Tighten the screws within the tightening torque range shown in the table.

TIGHTENING TORQUE (Nm)	
Terminal screws(6pc)	0.5 max
Covers screws	0.50.8

The cable gland assure mechanical retention compliant with EN50262.

CABLE DIAMETER	LOAD (N)
4,58mm	30
810mm	42

TECHNICAL DATA

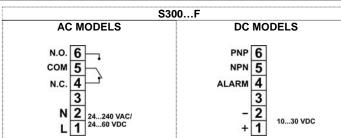
AC MODELS	\$3001-G/F
Power supply:	24240 VAC / 2460 VDC
Ripple:	10 % max
Current consumption (output current excluded):	< 3 VA
Outputs:	Electromechanical SPDT: 250 VAC, 30 VDC
Output current:	Max 3 A (resistive load)
Response time:	20 ms
Switching frequency:	25 Hz
Weight:	150 g

DC MODELS	\$3002/5-G/F
Power supply:	1030 VDC Class 2 (UL508)
Ripple:	10 % max
Current consumption (output current excluded):	F: <25mA / G: < 20 mA
Outputs:	PNP / NPN open collector R_pull-up/down = 47ΚΩ
Output current:	100 mA (resistive load)
Output saturation voltage:	2.4 V max
Diagnostic functions	PNP ALARM output / Test+ iput
Response time:	1 ms
Switching frequency:	500 Hz
Weight:	140 g

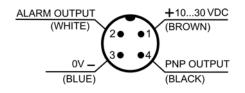
Common data

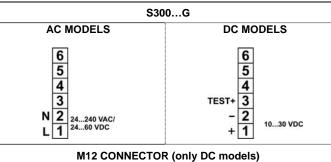
	\$300G	S300F
Emission type:	INFRARED LED (880nm)	-
Operating distance (typical value):	0.60m	
Indicators:	POWER ON LED (GREEN)	OUTPUT LED (YELLOW), STABILITY LED (GREEN)
		Sensitivity trimmer / DARK/LIGHT trimmer
Adjustment:	Emission power regulation trimmer	Timing versions S300F06: time base selection and one shot trimmer / ON DELAY trimmer / OFF DELAY trimmer
Time base (<i>Timing vers. S300F06</i>):	SHORT BASE: 02 sec, LONG BASE: 010 sec	
Operating temperature:	-4055 °C	
Storage temperature:	-4070 °C	
Dielectric strength:	☐: 1500 VAC, 1 min between electronics and housing	
Insulating resistance:	> 20 MΩ, 500 VDC between electronics and housing	
Ambient light rejection:	EN 60947-5-2	
Vibration:	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:	PBT 30% Glass fiber-reiforced	
Lenses:	frontal window and lens in PC	
Protection class:	IP67 (IEC / EN60529) / cable gland EN50262	
UL requirements:	60-70°C copper conductor 24-20 AWG; TYPE 1 ENCLOSURE	
Connections:	see the "CONNECTIONS" paragraph	

CONNECTIONS



M12 CONNECTOR (only DC models)





NOT USED +10...30 VDC (WHITE) (BROWN) ٥٧. TEST+ (BLUE) (BLACK)

Use a cable of 4.5 to 10 mm in diameter to ensure water- and dust-proof characteristics. The trasversal section of the cable must be between 16 and 26AWG.

The length of conductor peel must be 6mm and the cable peel must be 100mm. To favour the cable connection it is possible remove (and then replace) the terminal block cover when it is in the maximum opening position (like showned in the figure).

Turn off the power supply before wiring. Connect correctly to prevent damage. At the end of the connections, screw the cable gland decisively to lock the cable

Close the terminal block cover with the screw.

M12 connector versions (S300...5)

Terminal block versions (\$300...1/2)

The connector wires are just connected like show in the previous figure. It is possible change the wiring and use other functionality (NPN output, TEST+ input).

SETTING

Sensitivity setting (S300...F and S300...G)

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.

DIAGNOSTIC FUNCTIONS

S300 has the following diagnostic functions to verify the correct operation on application

TEST+ input (only \$300...2/5-G)

The TEST+ input can be used to inhibit the emitter and verify that the system is correctly operating. The TEST function is activated if the TEST+ input is connected to a voltage between 10...30V, whereas if the TEST+ input is connected to GND or it is not connected the function is disactivated.

Activating the TEST the output switches from ON to OFF (in light mode), testing the total operation

ALARM output (only \$300...2/5-F)

The alarm output switches ON whenever the received signals remains without a safety margin (greater than 30% compared to the output switching level).

The ALARM output is activated (ON) when the received signal remains without a safety margin for more than 3 seconds.

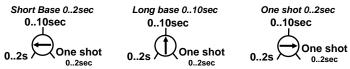
DIMENSIONS M12 CONNECTOR VERSION CABLE VERSION Ø nin 4.5 nn Ø nox 10 nn

TIMING FUNCTIONS





The TIME BASE SELECTION trimmer allows to select the time base or the ONE SHOT function.



Selecting the short base the time setting of ON delay and OFF delay trimmer is in the range 0..2sec, selecting long base is in the range 0..10sec.

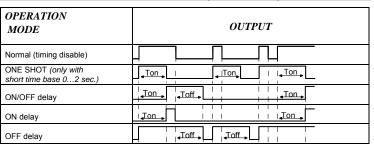
To allow a better setting of little delay, the variation of ON and OFF delay are not linear with mechanical regulation of the trimmer: until half rotation the regulation is thiner, whereas from half to full scale the regulation is faster.

The follow figure indicates the values of initial, middle and full scale delay of ON and OFF delay trimmer in the two different selectable time base:



The TIME BASE SELECTION trimmer has a third position to select ONE SHOT mode. The ONE SHOT duration is selectable by ON DELAY trimmer with short time base (0...2 sec). In this mode the OFF delay trimmer is disabled.

TIMING DIAGRAM (\$300...F06)



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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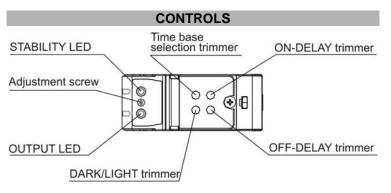
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ODATALOGIC



INSTRUCTION MANUAL



OUTPUT LED (yellow)

The yellow LED ON indicates the output status.

STABILITY LED (green)

The green LED ON indicates that the sensor has working with a enough safety margin

ADJUSTMENT TRIMMER (ADJ.)

The multiturn trimmer with clutch adjusts the suppression distance through the mechanical variation of the optic triangulation angle. Please refer to "SETTING" paragraph for for procedure indications.

DARK/LIGHT TRIMMER

A mono-turn trimmer to select dark/light mode.

ON-DELAY AND OFF-DELAY TRIMMER (*only versions with timing functions*) Mono-turn trimmers to setting output activation and disactivation delay time. Please refer to "TIMING FUNCTIONS" paragraph for for procedure indications.

TIME BASE SELECTION AND ONE-SHOT TRIMMER (only versions with timing functions)

A mono-turn trimmer with three operation position: it allows to select two different delay time base (SHORT BASE and LONG BASE) or ONE SHOT. Please refer to "TIMING FUNCTIONS" paragraph for procedure indications.

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

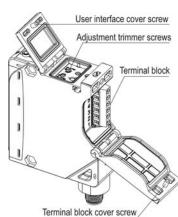
INSTALLATION

The sensor can be positioned by means of the two housing holes using two screws (M5x35 or longer, 1.2Nm maximum tightening torque). The sensor bottom surface has been provided of two mechanical threaded insert M5x5,5. These metal insert are commercial components.

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.

For a correct use, the sensor must be installed orthogonal respect the direction of the object to detect like show in the figure.



Tighten all screws surely to maintain the water-proof characteristics for IP67 (IEC/EN60529).

Excessive tightening causes damage. Tighten the screws within the tightening torque range shown in the table.

TIGHTENING TORQUE (Nm)		
Terminal screws(6pc)	0.5 max	
Covers screws	0.50.8	

The cable gland assure mechanical retention compliant with EN50262.

1	CABLE DIAMETER	LOAD (N)
	4,58mm	30
	810mm	42

TECHNICAL DATA

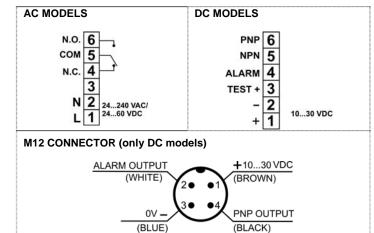
AC MODELS	S300-PR-1-M	DC MODELS
Power supply:	24240 VAC / 2460 VDC	Power supply:
Ripple:	10 % max	Ripple:
Current consumption (output current excluded):	< 3 VA	Current consump (output current excluded):
Outputs:	Electromechanical SPDT: 250 VAC, 30 VDC	Outputs:
Output current:	Max 3 A (resistive load)	Output current:
		Output saturation voltage:
		Diagnostic function
Response time:	20 ms	Response time:
Switching frequency:	25 Hz	Switching frequer
Weight:	150 g	Weight:
AtEx 2014/34/EU:	II 3G EX nA II T6 ; II 3D EX tD A22 IP67 T85°C	AtEx 2014/34/EU

DC MODELS	S300-PR-2/5-M
Power supply:	1030 VDC Class 2 (UL508)
Ripple:	10 % max
Current consumption (output current excluded):	< 35 mA
Outputs:	PNP / NPN open collector R_pull-up/down = 47KΩ
Output current:	100 mA (resistive load)
Output saturation voltage:	2.4 V max
Diagnostic functions	PNP ALARM output / Test+ iput
Response time:	2 ms
Switching frequency:	250 Hz
Weight:	140 g
AtEx 2014/34/EU:	II 3G EX nA II T6 ; II 3D EX tD A22 IP67 T85°C

Common data

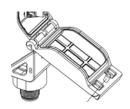
Emission type:	INFRARED LED (880nm)	
Operating distance (typical value):	4002500mm	
Difference (90% white / 4% black):	< 15 % at the max distance	
Hysteresis (90% white):	< 10 %	
Indicators:	OUTPUT LED (YELLOW), STABILITY LED (GREEN)	
Adjustment:	15 turns adiustment screw / DARK/LIGHT trimmer Versions with timing functions: time base selection and one shot trimmer / ON DELAY trimmer / OFF DELAY trimmer	
Time base (Versions with timing functions):	SHORT BASE: 02 sec, LONG BASE: 010 sec	
Operating temperature:	-4055 °C	
Storage temperature:	-4070 °C	
Dielectric strength:	☐: 1500 VAC, 1 min between electronics and housing	
Insulating resistance:	> 20 M Ω , 500 VDC between electronics and housing	
Ambient light rejection:	EN 60947-5-2	
Vibration:	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:	PBT 30% Glass fiber-reiforced	
Lenses:	frontal window and lens in PC	
Protection class:	IP67 (IEC / EN60529) / gland EN50262	
UL requirements:	60-70°C copper conductor 24-20 AWG; TYPE 1 ENCLOSURE	
Connections:	see the "CONNECTIONS" paragraph	

CONNECTIONS



Terminal block versions (S300-PR-1/2)

Use a cable of 4,5 to 10 mm in diameter to ensure water- and dust-proof characteristics. The trasversal section of the cable must be between 16 and 26AWG. The length of conductor peel must be 6mm and the cable peel must be 100mm



To favour the cable connection it is possible remove (and then replace) the terminal block cover when it is in the maximum opening position (like showned in the figure).

Turn off the power supply before wiring. Connect correctly to prevent damage. At the end of the connections, screw the cable gland decisively to lock the cable.

Close the terminal block cover with the screw.

M12 connector versions (S300-PR-5)

The connector wires are just connected like show in the previous figure. It is possible change the wiring and use other functionality (NPN output, TEST+ input).

SETTING

Suppression distance setting

- a) Position object to detect in front of the sensor at the distance required. Turn distance adjustment screw (ADJ) to minimum: yellow LED OFF. Rotate trimmer in a clockwise direction until the yellow LED turns ON. Object detection condition (pos A)
- b) Remove object and ensure that the background is in front of the sensor: yellow LED OFF. Rotate screw in a clockwise direction until the yellow LED turns ON: background detection condition (pos.B).
- c) Rotate screw in an anti-clockwise direction until the trimmer reaches an intermediate point between position A and C. The sensor is now ready to function correctly in stable conditions.

DIAGNOSTIC FUNCTIONS

S300 has the following diagnostic functions to verify the correct operation on application.

TEST+ input (only S300-PR-2/5)

The TEST+ input can be used to inhibit the emitter and verify that the system is correctly operating. The TEST function is activated if the TEST+ input is connected to a voltage between 12...30V, whereas if the TEST+ input is connected to GND or it is not connected the function is disactivated.

Activating the TEST while an object is in front of the sensor (output ON in light mode), the output switches from ON to OFF, testing the total operation. Activating the TEST whithout an object in front of the sensor (output OFF in light mode), the outpt switches from OFF to ON, testing only the output operation.

ALARM output (only \$300-PR-2/5)

The alarm output switches ON whenever the received signals remains without a safety margin (greater than 30% compared to the output switching level).

The ALARM output is activated when the sensor detects an object in instability conditions (stability LED OFF, OUT LED ON) for 10 times consecutively. If the commutations number is lower, the count down is reset and restart only in instability condition

The ALARM output remain ON until there is a commutation in stability condition.

M12 CONNECTOR VERSION Receiver M12 L 20 M13 L 20 M14 S no 4 S no 9 nox 10 m Final 15 no 9 nox 10 m Dimensions in mm

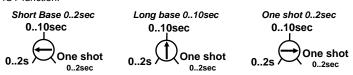
TIMING FUNCTIONS





Vers.without timing functions

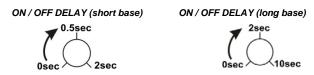
The TIME BASE SELECTION trimmer allows to select the time base or the ONE SHOT function



Selecting the short base the time setting of ON delay and OFF delay trimmer is in the range 0..2sec, selecting long base is in the range 0..10sec.

To allow a better setting of little delay, the variation of ON and OFF delay are not linear with mechanical regulation of the trimmer: until half rotation the regulation is thiner, whereas from half to full scale the regulation is faster.

The follow figure indicates the values of <u>initial</u>, <u>middle</u> and <u>full scale</u> delay of ON and OFF delay trimmer in the two different selectable time base:



The TIME BASE SELECTION trimmer has a third position to select ONE SHOT mode. The ONE SHOT duration is selectable by ON DELAY trimmer with short time base (0...2 sec). In this mode the OFF delay trimmer is disabled.

TIMING DIAGRAM (S300-x-xxxT)

OPERATION MODE	OUTPUT
Normal (timing disable)	
ONE SHOT (only with short time base 02 sec.)	Ton Ton
ON/OFF delay	Ton Toff
ON delay	I TON .
OFF delay	- I off - I of

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.

Under current Italian and European laws, Datalogic is not obliged to take care of product disposal at the end of its life. Datalogic recommends disposing of the product in compliance with local laws or contacting authorised waste collection centres.

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