MULTIFUNCTION OPTOELECTRONIC SENSORS



- Complete range of optic functions, basic, advanced and laser class 1
- Models with coaxial optics for polarised retroreflex, contrast and luminescence sensors
- Trimmer or EASYtouch[™] setting with Remote, Keylock and Delay functions
- Standard cable or M12 connection with standard NPN or PNP configuration

standard 50x50x15

The **S60** series, standard 50x50x15 mm compact housing, offers all the most advanced optic functions, as well as the universal, available with safety class 1 laser emission. The series presents a complete range of models, including retroreflex with coaxial optics and polarisation filters for the detection of shiny and/or transparent objects, background and foreground suppression, contrast sensors with white light emission for the detection of coloured marks, the sensor with UV emission for the detection of luminescence references and the distance sensor with analogue output. The basic models for presence detection present trimmer sensitivity adjustment, while the models with the advanced optics are microprocessor controlled and have the patent-covered *EASYtouch*[™] setting, which gives rapid and precise setting of the switching threshold, with the possibility of remote control, keyboard block and selection of the output delay function. The **S60** series offers versions with cable or M12 connection that can be rotated for either straight or right-angle positions. All versions have NPN or PNP output and standard configuration conforming to the EN 60947-5-2 standard.

S60 SERIES



C/F THROUGH BEAM WITH INFRARED EMISSION

(495) 221-58-89 http://www.newic.ru http://www.insensor.ru The detection system with two DIMENSIONS separate emitter and receiver units allows the user to reach larger 50 operating distances. The trimmer, 42 15 present on the receiver, allows to Α adjust sensitivity and to detect objects that obscure, even partially, the light emission. The IR emission 8 â is modulated to avoid interference 4 with other light sources and can be 50 turned off to test the functioning even without the object to detect. С M12 214 2915 С Ř **EMITTER** RECEIVER ZA 8 DO) DINO Output status and INDICATORS AND SETTINGS Α stability LEDs (receiver); power on LED (emitter) Adjustment trimmer (receiver) в M12 connector output С Cable output D Single-turn trimmer for sensitivity adjustment. Rotate clockwise to increase the operating distance. ACCESSORIES **CONNECTIONS** For dedicated accessories refer to the ACCESSORIES section of this catalogue. Refer also to Connectors (A.03) and Fixing S60-PA-2 S60-PA-5 Brackets (A.04) of the General Catalogue **EMITTER** BROWN 4 10 _ 39 Vd TEST + + 10 ... 30 Vdc WHITE 2 (WHITE) (BROWN TEAL BI ACK 0V TEST + 3 (BLUE) (BLACK) BLUE RECEIVER BROWN NC OUTPUT 10 ... 30 Vdc 2 WHITE (WHITE) (BROWN) NC OUTPUT BLACK . NO OUTPUT 0V -(BLUE) 3 NO OUTPUT (BLACK) BLUE 3 DATASENSOR

20 m 🖂

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TECHNICAL DATA

		_	1				
		ş	<u>e</u>	5 S	ş	<u>e</u>	ő
			-F	8	5		6
		2-F	2-F	9	5	5	5
		PA-	Ą	Å	Ą	Ā	PA
		S60-PA-2-F01-NN	S60-PA-2-F01-PP	S60-PA-2-G00-XG	S60-PA-5-F01-NN	S60-PA-5-F01-PP	S60-PA-5-G00-XG
		0	0	0	"	0	0,
Operating distance:	0 20 m	•	٠	•	•	•	٠
Power supply:	10 30 Vdc ¹	•	٠	•		•	٠
Ripple:	≤ 2 Vpp	•	٠		•	•	٠
Consumption:	≤ 35 mA	•	٠			•	٠
Light emission:	infrared LED 880 nm ²			•			•
Spot dimension:	aprox. 200 mm at 4 m			•			٠
Setting:	sensitivity trimmer ³	٠			•	٠	
Indicators:	,						
	yellow OUTPUT LED	٠	٠		•	•	
	green STABILITY LED	٠	٠		•	•	
	green POWER ON LED			•			٠
Output type:	5						
	PNP, NO and NC		٠			•	
	NPN, NO and NC				•		_
Output current:	≤ 100 mA	•	٠		•	•	
Saturation voltage:	≤ 2 V	٠	٠		•	•	
Response time:	1 ms	•	•			•	
Switching frequency:	500 Hz	•	٠		•	•	
Operating mode:	dark on NO / light on NC	٠	٠			٠	
Auxiliary functions:	Test + and Test -⁴			٠			٠
Connection:							
	2 m Ø 4 mm cable⁵	•	•	•			
	M12 4-pole connector 6				•	•	•
Electrical protection:	class 2	•	٠	•		•	٠
Mechanical protection:	IP67	•	•	•		•	٠
Protection devices:	A. B 7	•	•	•		•	٠
Housing material:	ABS		٠	٠		•	•
Lens material:	window in PMMA ⁸	•	٠	٠	•	٠	٠
Weight:							
	90 g max.	•	•	•			
	40 g max.					•	•
Operating temperature:	-25 +55°C	•	٠			•	•
Storage temperature:	-25 +70°C	•	•			•	•
Reference standard:	EN 60947-5-2	•	•	•		•	•
			-		-	-	

SELECTION TABLE

receiver - 2 m cable		
S60-PA-2-F01-NN	956201490	NPN
S60-PA-2-F01-PP	956201330	PNP
emitter - 2 m cable		
S60-PA-2-G00-XG	956201340	
receiver - M12 connect	or	
S60-PA-5-F01-NN	956201210	NPN
S50-PA-5-F01-PP	956201060	PNP
emitter - M12 connecto	nr.	

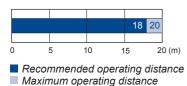
S60-PA-5-G00-XG 956201070

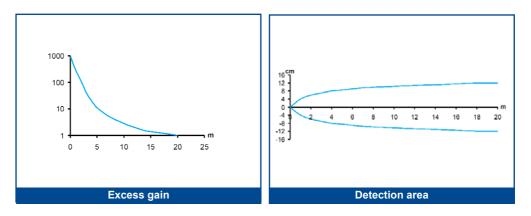
All the ordering codes and information are summarised in the last pages of this catalogue

TECHNICAL NOTES

- ¹ Limit values
- ² Average life of 100.000 h with T_A = +25 °C
- ³ 270 ° trimmer
- ⁴ Emitter off with Test+ on Vdc and Test- on 0 V
 ⁵ PVC, 4 x 0.14 mm²
- ⁶ Connector can be blocked on two positions
- ⁷ A reverse polarity protection
- B overload and short-circuit protection on receiver outputs
- ⁸ Internal lenses in Polycarbonate







L-G/F THROUGH BEAM WITH RED LASER EMISSION

The high operating distance, typical of the emitter and receiver system, is notably increased thanks to the use of visible red laser emission. The laser beam can be easily aligned and offers excellent detection resolution of even small objects. The class 1 laser emission, according to EN 60825-1, guarantees maximum safety for the operators in all applications.

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DIMENSIONS





EMITTER

5O



RECEIVER







Single-turn trimmer for sensitivity adjustment. Rotate clockwise to increase the operating distance. Decrease sensitivity to increase resolution.

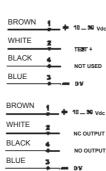
ACCESSORIES

For **dedicated accessories** refer to the **ACCESSORIES** section of this catalogue.

Refer also to **Connectors (A.03)** and **Fixing Brackets (A.04)** of the **General Catalogue**

CONNECTIONS

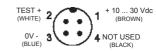




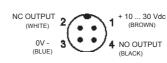


S60-PA-5

EMITTER



RECEIVER





60 m Η

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		S60-PL-2-F01-NN	S60-PL-2-F01-PP	S60-PL-2-G00-XG	S50-PL-5-F01-NN	S50-PL-5-F01-PP	S50-PL-5-G00-XG
Operating distance:	0 60 m	•	٠	٠	٠	•	٠
Power supply:	10 30 Vdc1	•	•	•	•	•	٠
Ripple:	≤2 Vpp	•	•	•	٠	•	
Consumption:	≤ 35 mA	•		•			
Light emission:	red Laser 650 nm ²			•			
	class 1 EN 60825-1						
	class II CDRH21 CFR 1040.10						
Resolution:							
	aprox. 6 mm a 0.5 m	•	٠		٠	•	
	aprox.10 mm over 2 m	•	٠		٠	•	
Setting:	sensitivity trimmer 3	•	٠		٠		
Indicators:							
	yellow OUTPUT LED	•	٠		٠	٠	
	green POWER ON LED	•	•	•		•	
Output type:	-						
	PNP, NA and NC		•			•	
	NPN, NA and NC	•			٠		
Output current:	≤ 100 mA	•	٠			٠	
Saturation voltage:	≤2 V	•	٠		•	٠	
Response time:	333 μs	•	٠		٠	٠	
Switching frequency:	1.5 kHz	•	٠		٠	٠	
Operating mode:	dark on NO / light on NC	•	٠		٠	٠	
Auxiliary functions:	Test + ⁴			٠			٠
Connection:							
	2 m Ø 4 mm cable ⁵	•	٠	٠			
	M12 4-pole connector 6				•	•	•
Electrical protection:	class 2	•	•	•	•	•	•
Mechanical protection:	IP67	•	•	٠	•	•	٠
Protection devices:	A, B ⁷	•	•	٠	•	•	•
Housing material:	ABS	•	•	•	•	•	•
Lens material:	window in PMMA [®]	•	٠	٠	٠		٠
Weight:]		I	
	90 g max.	•	•	•			
	40 g max.				•	•	
Operating temperature:	-10 +50°C	•	٠	٠	•	•	•
Storage temperature:	-25 +70°C	•	٠	٠	٠	•	•
Reference standard:	EN 60947-5-2,	•	٠	•	٠	•	•
	EN 60825-1, CDRH21 CFR 1040.10						

TECHNICAL DATA

SELECTION TABLE

receiver - 2 m cable		
S60-PL-2-F01-NN	956201570	NPN
S60-PL-2-F01-PP	956201420	PNP
emitter - 2 m cable		
S60-PL-2-G00-XG	956201430	
receiver - M12 connect	tor	
S60-PL-5-F01-NN	956201270	NPN
S60-PL-5-F01-PP	956201140	PNP
anaittan NA40 aanaaata	-	

emitter - M12 connector S60-PL-5-G00-XG 956201150

All the ordering codes and information are summarised in the last pages of this catalogue

TECHNICAL NOTES

¹ Limit values

 2 Average life of 50.000 h with T_A = +25 $^\circ \rm C$

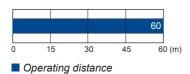
- ³ 270° trimmer
- ⁴ Emitter off with Test+ connected to +Vdc Emitter on with Test+ not connected or connected to 0V
- ⁵ PVC, 4 x 0.14 mm²

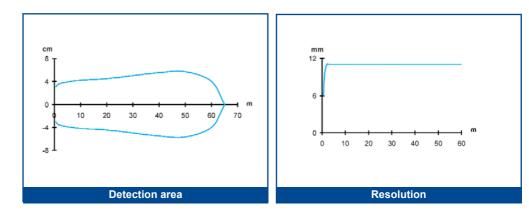
⁶ Connector can be blocked on two positions

⁷ A - reverse polarity protection

- B overload and short-circuit protection on receiver outputs
- ⁸ Internal lenses in glass and Polycarbonate



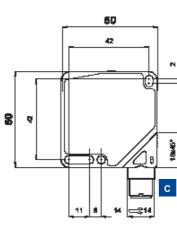


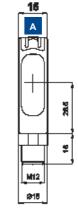


B POLARISED RETROREFLEX WITH RED EMISSION

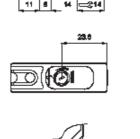
With retroreflex sensors the object is detected when it interrupts the light beam generated between the sensor and its associated prismatic reflector. High-polarisation optic filters also allow reliable detection of very reflective objects, such as mirrored surfaces that, differently from the prismatic reflector, reflect the light beam without rotating the polarisation plane.

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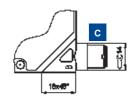














Single-turn trimmer for sensitivity adjustment. Rotate clockwise to increase the operating distance.

ACCESSORIES

For **dedicated accessories** refer to the **ACCESSORIES** section of this catalogue.

Refer also to **Reflectors (A.01)**, **Connectors** (A.03) and **Fixing Brackets (A.04)** of the **General Catalogue**



10 _ 39 Vdc

NC OUTPUT

NO OUTPUT

DV

BROWN

WHITE

BLACK

BLUE





S60-PA-5





8 m 🔝

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TECHNICAL DATA

		S60-PA-2-B01-NN	S60-PA-2-B01-PP	S60-PA-5-B01-NN	S60-PA-5-B01-PP
Operating distance:	0.1 8 m (on R5)	•	٠	•	•
Power supply:	10 30 Vdc ¹	•	٠	•	•
Ripple:	≤ 2 Vpp	•	•	•	•
Consumption:	≤ 40 mA	•	۲	•	•
Light emission:	red LED 660 nm ²		٠	•	•
Spot dimension:	aprox. 90 mm at 3 m		٠	•	•
Setting:	sensitivity trimmer ³	•	٠	٠	
Indicators:					
	yellow OUTPUT LED		٠	٠	
	green STABILITY LED	•	٠	•	•
Output type:	-				Γ
	PNP, NO and NC		٠		•
	NPN, NO and NC	•			\square
Output current:	≤ 100 mA	•	٠	•	•
Saturation voltage:	≤ 2 V	٠	٠	•	•
Response time:	500 μs	•	٠	•	•
Switching frequency:	1 kHz	•	٠	•	•
Operating mode:	dark on NO / light on NC	•	•	•	•
Connection:					
	2 m Ø 4 mm cable ^₄	•	٠		
	M12 4-pole connector ⁵			•	•
Electrical protection:	class 2	•	٠	•	•
Mechanical protection:	IP67	•	٠	•	•
Protection devices:	A, B ⁶		۲	•	•
Housing material:	ABS	•	•	•	•
Lens material:	window in PMMA ⁷	٠	۲	•	٠
Weight:					
	90 g max.	•	•		
	40 g max.			•	•
Operating temperature:	-25 +55°C	•		•	•
Storage temperature:	-25 +70°C	•	٠	•	•
Reference standard:	EN 60947-5-2		۲	•	

S	EL	EC	TIC)N .	TAI	BLE

axial optics - 2 m cable						
S60-PA-2-B01-NN	956201460	NPN				
S60-PA-2-B01-PP	956201300	PNP				
· · · · ·						
avial ontice - M12 connector						

axial optics - M12 connector						
S60-PA-5-B01-NN	956201180	NPN				
S60-PA-5-B01-PP	956201040	PNP				

All the ordering codes and information are summarised in the last pages of this catalogue

т	ECH	-NI	CAI	ΟΤ	FS
	LOI		UAI		LO

¹ Limit values

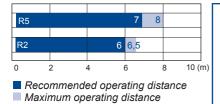
² Average life of 100.000 h with T_A = +25 °C

³ 270° trimmer

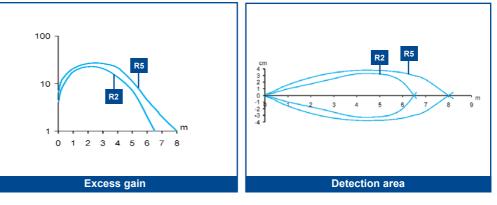
⁴ PVC, 4 x 0.14 mm²

⁵ Connector can be blocked on two positions

- ⁶ A reverse polarity protection
 B overload and short-circuit protection on outputs
- ⁷ Internal lenses in Polycarbonate



High efficiency reflectors can be used to obtain larger operating distances. Refer to **Reflectors** (A.01) of the **General Catalogue**



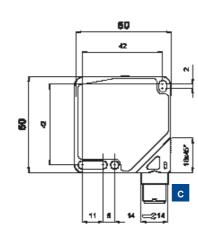


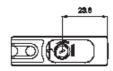
L-B RETROREFLEX WITH RED LASER EMISSION

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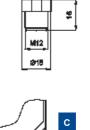
The visible red laser emission increases the operating distance and resolution of the polarised retroreflex sensor. Specific R7 or R8 reflectors with 0.8 mm microprisms are available for highresolution detection of small objects. The class 1 laser emission, according to EN 60825-1, guarantees maximum safety for the operators in all applications.

DIMENSIONS







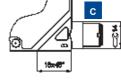


292

16

Δ

TLA





CONNECTIONS

Single-turn trimmer for sensitivity adjustment. Rotate clockwise to increase the operating distance. Decrease sensitivity to increase resolution.

10 _ 30 Vdd

NC OUTPUT

NO OUTPUT

ACCESSORIES

For **dedicated accessories** refer to the **ACCESSORIES** section of this catalogue.

Refer also to **Reflectors (A.01)**, **Connectors** (A.03) and **Fixing Brackets (A.04)** of the **General Catalogue**



BROWN

WHITE

BLACK

BLUE

S60-PA-5

+ 10 30 Vdc

(BROWN)

NO OUTPUT

(BLACK)





20 m 🚺

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zaza

TECHNICAL DATA

		S60-PL-2-B01-NN	S60-PL-2-B01-PP	360-PL-5-B01-NN	S60-PL-5-B01-PP
		0			
Operating distance:	0.1 20 m	•	•	•	
Power supply:	10 30 Vdc 1	•	-	•	•
Ripple:	≤ 2 Vpp	•	-	•	
Consumption:	≤ 35 mA	•	•	•	
Light emission:	red Laser 650 nm ²	•	•		
	class 1 EN 60825-1		\perp	⊢	
	class II CDRH21 CFR 1040.10				
Resolution:	approx. 10 mm	•	•		
Setting:	sensitivity trimmer ³		•		
Indicators:				L	
	yellow OUTPUT LED	•	•		
	green POWER ON LED	•			
Output type:					
	PNP, NO and NC				
	NPN, NO and NC	•		•	
Output current:	≤ 100 mA	•			
Saturation voltage:	≤2 V	•			
Response time:	250 μs	•			
Switching frequency:	2 kHz	•			
Operating mode:	dark on NO / light on NC	•			
Connection:				Т	\square
	2 m Ø 4 mm cable 4		•		
	M12 4-pole connector 5			•	
Electrical protection:	class 2	•	•		
Mechanical protection:	IP67		•		
Protection devices:	A, B ⁶	•		•	
Housing material:	ABS	•			
Lens material:	window in PMMA ⁷	•		•	
Weight:				Т	\square
<u>v</u>	90 g max.	•		T	
	40 g max.		T	•	
Operating temperature:	-10 +50°C			•	
Storage temperature:	-25 +70°C				
Standard reference:	EN 60947-5-2, EN 60825-1,				
	CDRH21 CFR 1040.10				
					<u> </u>

SE	LEC	ΓΙΟΝ	TAB	LE

axial optics - 2 m cable		
S60-PL-2-B01-NN	956201560	NPN
S60-PL-2-B01-PP	956201410	PNP

axial optics - M12 connector			
S60-PL-5-B01-NN	956201260	NPN	
S60-PL-5-B01-PP	956201120	PNP	

All the ordering codes and information are summarised in the last pages of this catalogue

1	FECHNICAL NOTES

¹ Limit values

² Average life of 50.000 h with T_A = +25 °C

³ 270° trimmer

⁴ PVC, 4 x 0.14 mm²

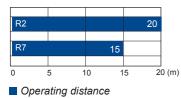
⁵ Connector can be blocked on two positions

⁶ A - reverse polarity protection

B - overload and short-circuit protection on outputs

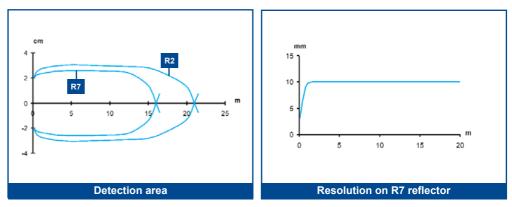
7 Internal lenses in glass and Polycarbonate





High efficienct reflectors can be used to obtain larger operating distances. Refer to **Reflectors** (A.01) of the **General Catalogue**

DETECTION DIAGRAMS



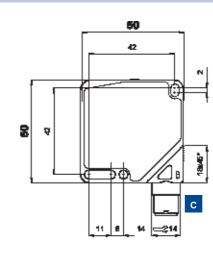
DATASENSOR

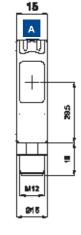
B COAXIAL POLARISED RETROREFLEX WITH RED EMISSION

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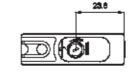
The polarised retroreflex sensor with a coaxial optics offers the best resolution of the detection point as the optic emitting axis coincides with the optic receiving axis. The coaxial system also allows to reduce drastically the sensor's blind zone and consents the detection of objects very close to the sensor's frontal lens.

DIMENSIONS

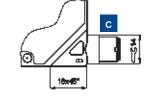












INDICATORS AND SETTINGS	A Output status and stability LEDs
вв	B Adjustment trimmer
	c M12 connector output
No. of the second	D Cable output

Single-turn trimmer for sensitivity adjustment. Rotate clockwise to increase the operating distance.

ACCESSORIES

For **dedicated accessories** refer to the **ACCESSORIES** section of this catalogue.

Refer also to **Reflectors (A.01)**, **Connectors** (A.03) and **Fixing Brackets (A.04)** of the **General Catalogue**



10 _ 39 Vdd

NC OUTPUT

NO OUTPUT

DV

BROWN

WHITE

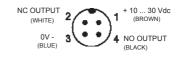
BLACK

BLUE





S60-PA-5



4 m 🔀

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TECHNICAL DATA

coaxial optics - 2 m ca	ble	
S60-PA-2-B51-NN	956201610	NPN
S60-PA-2-B51-PP	956201600	PNP

SELECTION TABLE

coaxial optics - M12 connector				
S60-PA-5-B51-NN	956201630	NPN		
S60-PA-5-B51-PP	956201620	PNP		

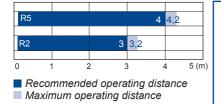
All the ordering codes and information are summarised in the last pages of this catalogue

		S60-PA-2-B51-NN	S60-PA-2-B51-PP	S60-PA-5-B51-NN	S60-PA-5-B51-PP
Operating distance:	0 4 m	•	•	•	
Power supply:	10 30 Vdc ¹	•		•	•
Ripple:	≤ 2 Vpp	•	•	٠	•
Consumption:	≤ 40 mA	•	٠	•	•
Light emission:	red LED 660 nm ²	•	•	•	•
Spot dimension:	aprox. 50 mm at 1.5 m	•	٠	•	•
Setting:	sensitivity trimmer ³	•	•	•	•
Indicators:	,		Ť		É
	vellow OUTPUT LED	•	•	•	•
	green STABILITY LED	•	•	•	
Output type:					F
	PNP, NO and NC		•		•
	NPN, NO and NC	•			F
Output current:	≤ 100 mA	•	•	•	•
Saturation voltage: $\leq 2 V$		•	•	•	•
Response time: 500 µs		•	•	•	•
Switching frequency: 1 kHz		•	•	•	•
Operating mode: dark on NO / light on NC		•		•	•
Connection:			\square		F
	2 m Ø 4 mm cable ₄	•	•		F
	M12 4-pole connector 5		\square	•	•
Electrical protection:	class 2	•	•	•	
Mechanical protection:	IP67	•	•	•	
Protection devices:	A, B ⁶	•	•	•	•
Housing material:	ABS	•	•	•	
Lens material:	window in glass (tilted anti-reflection) ⁷	•	•	•	•
Weight:					F
y	90 g max.	•	•		F
	40 g max.		1	•	•
Operating temperature:	-25 +55°C	•	•	•	•
Storage temperature:	-25 +70°C	•	•	•	•
Reference standard:	EN 60947-5-2	•	•	•	

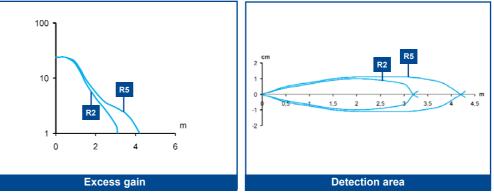
TEC	:HNI	CAL	NO	IFS
	/	UAL		

¹ Limite values

- ² Average life of 100.000 h with T_A = +25 °C
- ³ 270° trimmer
- ⁴ PVC, 4 x 0.14 mm²
- ⁵ Connector can be blocked on two positions
- ⁶ A reverse polarity protection
- B overload and short-circuit protection on outputs
- ⁷ Internal lenses in glass



High efficienct reflectors can be used to obtain larger operating distances. Refer to **Reflectors** (A.01) of the **General Catalogue**



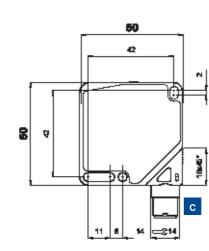


T COAXIAL POLARISED RETROREFLEX FOR TRANSPARENTS

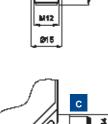
The high sensitivity and reduced hysterisis of this retroreflex sensor allow to detect even the slightest attenuation of the received light emission, caused by the presence of transparent objects, such as glass or PET bottles or plastic film sheets for packaging. The presence of polarisation filters avoids false switching on shiny surfaces and the coaxial optics improves the detection precision on the entire operating range.

DIMENSIONS

(495) 221-58-89 http://www.newic.ru http://www.insensor.ru







202

15

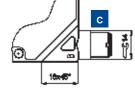
Α

U





23.6





D

Single-turn trimmer for sensitivity adjustment. Rotate clockwise to increase the operating distance.

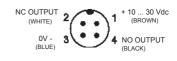
ACCESSORIES

For **dedicated accessories** refer to the **ACCESSORIES** section of this catalogue.

Refer also to **Reflectors (A.01)**, **Connectors** (A.03) and **Fixing Brackets (A.04)** of the **General Catalogue**









BROWN

WHITE

BLACK

BLUE

12

NC OUTPUT

NO OUTPUT

2 m [‡]

(495) 221-58-89 http://www.newic.ru http://www.insensor.ru

TECHNICAL DATA

				_	_
		S60-PA-2-T51-NN	S60-PA-2-T51-PP	S60-PA-5-T51-NN	S60-PA-5-T51-PP
Operating distance:	0 2 m	•		•	•
Power supply:	10 30 Vdc ¹	•	•	•	•
Ripple:	≤2 Vpp	•	•	•	•
Consumption:	$\leq 40 \text{ mA}$	•		•	•
Light emission:	red LED 660 nm ²	•		•	•
Spot dimension:	aprox. 50 mm at 1.5 m	•		•	•
Setting:	sensitivity trimmer ³	•		•	•
Indicators:	vellow OUTPUT LED	•	•	•	•
Output type:					
	PNP, NO and NC				•
	NPN, NO and NC	•		•	
Output current:	≤ 100 mA	•		•	•
Output current: ≤ 100 mA Saturation voltage: ≤ 2 V		•	•	•	•
Response time:	500 μs	•	•	•	٠
Switching frequency:	1 kHz	•		٠	٠
Operating mode:	dark on NO / light on NC	•			•
Connection:	<u> </u>				
	2 m Ø 4 mm cable 4	•			
	M12 4-pole connector 5			•	•
Electrical protection:	class 2	•		٠	٠
Mechanical protection:	IP67	•			•
Protection devices:	A, B ⁶	•		•	•
Housing material:	ABS	•	•	٠	٠
Lens materiale:	window in glass (tilted anti-reflection) 7	•		•	•
Weight:					
	90 g max.	•			
	40 g max.			٠	•
Operating temperature:	-25 +55°C	•		•	•
Storage temperature:	-25 +70°C	•		٠	•
Reference standard:	EN 60947-5-2	•		٠	•

SELECTION TABLE

coaxial optics - 2 m cable				
S60-PA-2-T51-NN	956201530	NPN		
S60-PA-2-T51-PP	956201380	PNP		

coaxial optics - M12 connector			
S60-PA-5-T51-NN	956201250	NPN	
S60-PA-5-T51-PP	956201100	PNP	

All the ordering codes and information are summarised in the last pages of this catalogue

TECHNICAL NOTES

¹ Limit values

² Average life of 100.000 h with $T_A = +25 \text{ °C}$

³ 270° trimmer

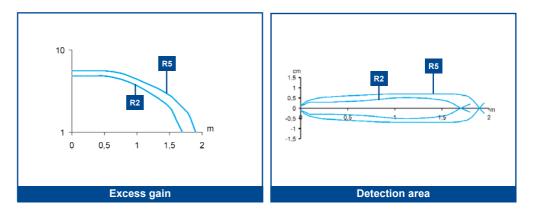
- ⁴ PVC, 4 x 0.14 mm²
- ⁵ Connector can be blocked on two positions
- ⁶ A reverse polarity protection
- B overload and short-circuit protection on outputs
- ⁷ Internal lenses in glass





Maximum operating distance

DETECTION DIAGRAMS



DATASENSOR

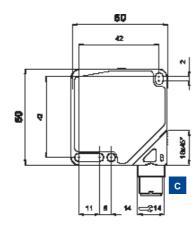
C DIFFUSE PROXIMITY

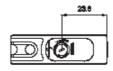
This diffuse proximity sensor represents a reliable, simple and cost-effective solution for the direct detection of any object within the operating distance, that can be set using the sensitivity adjustment trimmer. The visible red emission facilitates the alignment of the sensor or of the object to detect and in particular in short operating distances.



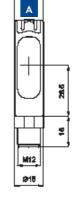
(495) 221-58-89 http://www.newic.ru http://www.insensor.ru

DIMENSIONS

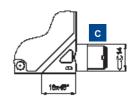








15



 INDICATORS AND SETTINGS
 A Output status LED

 B
 Adjustment trimmer

 C
 M12 connector output

 D
 Cable output

Single-turn trimmer for sensitivity adjustment. Rotate clockwise to increase the operating distance.

ACCESSORIES

For **dedicated accessories** refer to the **ACCESSORIES** section of this catalogue.

Refer also to Connectors (A.03) and Fixing Brackets (A.04) of the General Catalogue



10 _ 30 Vdd

NC OUTPUT

NO OUTPUT

DV

BROWN

WHITE

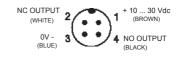
BLACK

BLUE

CONNECTIONS



S60-PA-5



DATASENSOR

100 cm 😭

(495) 221-58-89 http://www.newic.ru http://www.insensor.ru

TECHNICAL DATA

		-		-	-
		S60-PA-2-C01-NN	S60-PA-2-C01-PP	S60-PA-5-C01-NN	S60-PA-5-C01-PP
		ç	ပြ	Ş	ပို
		A-2.	4-2	γ	4-5-
		-0 -0	9	9	9
		Se	se	»	se
Operating distance:	0 100 cm	•	•	•	
Power supply:	10 30 Vdc ¹		•	•	•
Ripple:	≤ 2 Vpp	•			
Consumption:	≤ 40 mA				
Light emission:	red LED 660 nm ²				
Spot dimension:	approx. 50 mm at 90 cm				
Setting:	sensitivity trimmer ³	•	-	┛	
Indicators:					
	yellow OUTPUT LED	•	•	•	•
	green STABILITY LED	•	•	•	•
Output type:					
	PNP, NO and NC		•		٠
	NPN, NO and NC	•			
Output current:	≤ 100 mA	•	•	•	
Saturation voltage:	≤ 2 V	•	•	٠	٠
Response time:	500 μs	•	•		•
Switching frequency:	1 kHz	•	٠	•	•
Operating mode:	light on NO / dark on NC	•	•	•	•
Connection:	0				
	2 m Ø 4 mm cable⁴	•	٠		
	M12 4-pole connector ⁵			•	•
Electrical protection:	class 2	•	•	•	•
Mechanical protection:	IP67	•	•	•	•
Protection devices:	A, B ⁶	•	•	•	•
Housing material:	ABS	•	•	•	•
Lens material:	window in PMMA ⁷	•	•	•	•
Weight:			-	Ē	-
Weight.	90 g max.	•		⊢	-
	40 g max.				
Operating temperature					
Operating temperature:	-25 +55°C	•			
Storage temperature:	-25 +70°C	•	•	•	•
Reference standard:	EN 60947-5-2				

axial optics - 2 m cable	1	
S60-PA-2-C01-NN	956201470	NPN
S60-PA-2-C01-PP	956201310	PNP

S60-PA-5-C01-NN 956201190 NPN	axial optics - M12 connector					
	S60-PA-5-C01-NN	956201190	NPN			
S60-PA-5-C01-PP 956201050 PNP	S60-PA-5-C01-PP	956201050	PNP			

All the ordering codes and information are summarised in the last pages of this catalogue

TECHNICAL	NOTES

¹ Limite values

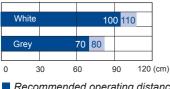
 2 Average life of 100.000 h with T_A = +25 $^\circ \rm C$

³ 270° trimmer

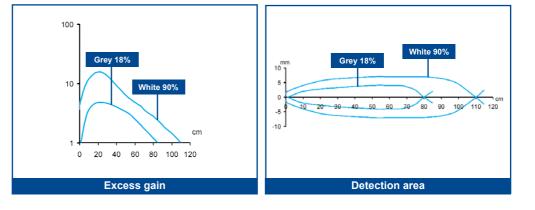
⁴ PVC, 4 x 0.14 mm²

⁵ Connector can be blocked on two positions

- ⁶ A reverse polarity protection
 B overload and short-circuit protection on outputs
- 7 Internal lenses in Polycarbonate



Recommended operating distance
 Maximum operating distance



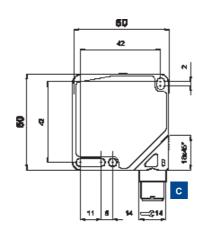


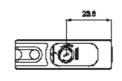
C LONG DIFFUSE PROXIMITY

(495) 221-58-89 http://www.newic.ru http://www.insensor.ru

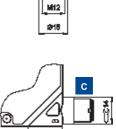
This version of diffuse proximity sensor offers the maximum operating distance for the direct detection of objects, without the use of separate reflectors or receivers. The detection distance can be set using the sensitivity adjustment trimmer. The green stability LED indicates that the received signal is higher than the minimum signal for stable output switching.

DIMENSIONS









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Α

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282

2



Single-turn trimmer for sensitivity adjustment. Rotate clockwise to increase the operating distance.

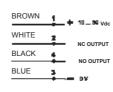
ACCESSORIES

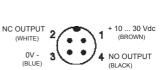
For **dedicated accessories** refer to the **ACCESSORIES** section of this catalogue.

Refer also to Connectors (A.03) and Fixing Brackets (A.04) of the General Catalogue









S60-PA-5

DATASENSOR

200 cm [🚬

(495) 221-58-89 http://www.newic.ru http://www.insensor.ru

TECHNICAL DATA

axial optics - 2 m cable		
S60-PA-2-C11-NN	956201480	NPN
S60-PA-2-C11-PP	956201320	PNP

SELECTION TABLE

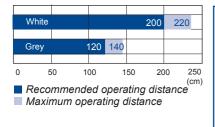
axial optics -M12 connector					
S60-PA-5-C11-NN	956201200	NPN			
S60-PA-5-C11-PP	956201110	PNP			

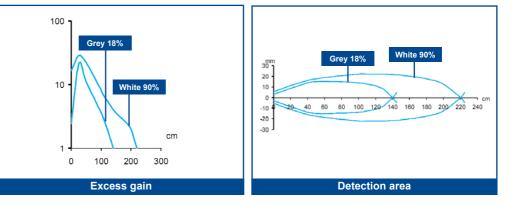
All the ordering codes and information are summarised in the last pages of this catalogue

		560-PA-2-C11-NN	S60-PA-2-C11-PP	S60-PA-5-C11-NN	S60-PA-5-C11-PP
Operating distance:	5 200 cm	•		•	•
Power supply:	10 30 Vdc 1	•		•	
Ripple:	≤ 2 Vpp	•		•	•
Consumption:	≤ 40 mA	•			•
Light emission:	infrared LED 880 nm ²	•		•	•
Spot dimension:	approx. 250 mm at 1 m	•		•	•
Setting:	sensitivity trimmer ³	•		•	•
Indicators:	2		1	T	T
	vellow OUTPUT LED	•		•	•
	green STABILITY LED	•	•	•	
Output type:				F	1
	PNP, NO and NC				•
	NPN, NO and NC	•			t
Output current:	≤ 100 mA	•		•	•
Saturation voltage:	$\leq 2 V$	•			
Response time:	500 μs	•		•	•
Switching frequency:	1 kHz	•		•	
Operating mode:	light on NO / dark on NC	•		•	•
Connection:			T	T	\top
	2 m Ø 4 mm cable ⁴	•	•		\top
	M12 4-pole connector ⁵		1	•	•
Electrical protection:	class 2	•			
Mechanical protection:	IP67	•			
Protection devices:	A, B ⁶	•			
Housing material:	ABS	•			
Lens material:	window in PMMA ⁷	•			
Weight:				F	\top
	90 g max.	•	•	Г	T
	40 g max.		Ĺ	•	•
Operating temperature:	-25 +55°C	•	•	•	•
Storage temperature:	-25 +70°C	•	•	T	•
Reference standard:	EN 60947-5-2	•			

TECHNICAL NC	TES
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- ¹ Limite values
- ² Average life of 100.000 h with T_A = +25 °C
- ³ 270° trimmer
- ⁴ PVC, 4 x 0.14 mm²
- ⁵ Connector can be blocked on two positions
- ⁶ A reverse polarity protection
- B overload and short-circuit protection on outputs
- ⁷ Internal lenses in Polycarbonate





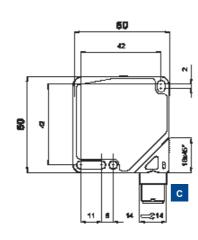


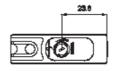
L-C PROXIMITY WITH RED LASER EMSSION

The visible red laser emission allows the accurate detection of very small objects. The sensors operate as a proximity device up to 60 cm and can be used as a contrast sensor for high contrast mark detection. The class 1 laser e m i s s i o n, a c c o r d i n g t o EN 60825-1, guarantees maximum safety for the operators in all applications.

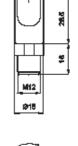
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DIMENSIONS









16

Δ





CONNECTIONS

Single-turn trimmer for sensitivity adjustment. Rotate clockwise to increase the operating distance.

ACCESSORIES

For **dedicated accessories** refer to the **ACCESSORIES** section of this catalogue.

Refer also to Connectors (A.03) and Fixing Brackets (A.04) of the General Catalogue



10 _ 39 Vdc

NC OUTPUT

NO OUTPUT

DV

BROWN

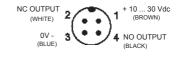
WHITE

BLACK

BLUE



S60-PA-5





18

60 cm 🛃

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TECHNICAL DATA

axial optics - 2 m cable	:	
S60-PL-2-C01-NN	956201640	NPN
S60-PL-2-C01-PP	956201650	PNP

SELECTION TABLE

axial optics - M12 conn	ector	
S60-PL-5-C01-NN	956201660	NPN
S60-PL-5-C01-PP	956201670	PNP

All the ordering codes and information are summarised in the last pages of this catalogue

		S60-PL-2-C01-NN	S60-PL-2-C01-PP	S60-PL-5-C01-NN	S60-PL-5-C01-PP
Operating distance:	0 60 cm	•	•	•	•
Power supply:	10 30 Vdc ¹	•	•	•	٠
Ripple:	≤ 2 Vpp	•		•	•
Consumption:	≤ 35 mA	•	•	•	•
Light emission:	red Laser 650 nm ²	•			٠
	class 1 EN 60825-1				
	class II CDRH21 CFR 1040.10				
Resolution:					
	approx. 0.2 mm at 15 cm	•		•	•
	approx. 1 mm at 35 cm	•	٠	•	•
	approx. 2 mm at 50 cm	•	٠	•	•
Setting:	sensitivity trimmer ³	•	٠	•	•
Indicators:	Ť				
	yellow OUTPUT LED	•	•	•	•
	green POWER ON LED	•	٠	٠	٠
Output type:	· · ·				
	PNP, NO and NC		٠		•
	NPN, NO and NC	•		•	
Output current:	≤ 100 mA	•	٠	•	٠
Saturation voltage:	≤ 2 V	•	٠	•	•
Response time:	250 μs	•	٠	•	•
Switching frequency:	2 kHz	•	٠	•	٠
Operating mode:	light on NO / dark on NC	•	٠	•	•
Connection:	5				
	2 m Ø 4 mm cable ⁴	•	٠		
	M12 4-pole connector ⁵			•	•
Electrical protection:	class 2	•	•	•	•
Mechanical protection:	IP67	•		•	•
Protection devices:	A, B ⁶	•	٠	٠	٠
Housing material:	ABS	•	٠	•	•
Lens material:	window in PMMA 7	•	٠	٠	٠
Weight:					
<u> </u>	90 g max.	•	•		
	40 g max.			٠	•
Operating temperature:	-10 +50°C	•	•	•	•
Storage temperature:	-25 +70°C	•		•	•
Reference standard:	EN 60947-5-2, EN 60825-1,	•	•	•	•
	CDRH21 CFR 1040.10				

TECHNICAL NOTES

¹ Limit values

 2 Average life of 50.000 h with $T_{\rm A}$ = +25 $^{\circ}{\rm C}$

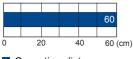
³ 270° trimmer

⁴ PVC, 4 x 0.14 mm²

⁵ Connector can be blocked on two positions

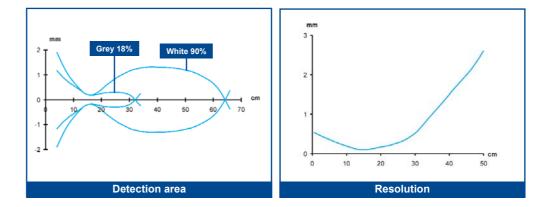
- ⁶ A reverse polarity protection
- B overload and short-circuit protection on outputs
- ⁷ Internal lenses in glass and Polycarbonate





Operating distance

DETECTION DIAGRAMS



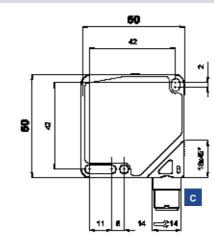


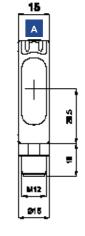
M BACKGROUND SUPPRESSION WITH RED EMISSION

(495) 221-58-89 http://www.newic.ru http://www.insensor.ru

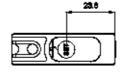
Background suppression proximity allows to precisely adjust the distance over which the object is not detected, with the minimum difference between different coloured objects. The EASYtouch™ setting procedure fixes automatically the best detection conditions with medium or high precision, simply pressing once the teach-in push-button, in presence of the background to suppress.

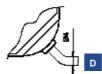
DIMENSIONS















Teach-in button for setting.

BROWN

WHITE

BLACK

BLUE

EASYtouch[™] provides two setting modes: standard or fine. Please refer to instructions manual for operating details.

30 Vdd

OTE

NO OUTPUT

D1

ACCESSORIES

For **dedicated accessories** refer to the **ACCESSORIES** section of this catalogue.

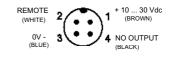
Refer also to Connectors (A.03) and Fixing Brackets (A.04) of the General Catalogue



CONNECTIONS



S60-PA-5





20 cm 📰

(495) 221-58-89 http://www.newic.ru http://www.insensor.ru

TECHNICAL DATA

		HN-80W-2-P4-09S	S60-PA-2-M08-PH	S60-PA-5-M08-NH	S60-PA-5-M08-PH	
Operating distance:	7 20 cm	•		٠		_
Power supply:	10 30 Vdc ¹	•	•	•		P
Ripple:	≤ 2 Vpp	•	•	٠	•	S
Consumption:	≤ 30 mA	•		•		
Light emission:	red LED 670 nm ²	•	•	٠	•	
Spot dimension:	approx. 16 mm at 20 cm	•		٠	•	
Setting:						
	teach-in push-button	•	•	•	٠	
	remote on cable ³	•	٠	•		
Setting procedure:	EASYtouch™	•	•	•		
Indicators:	yellow OUTPUT LED	•	٠	•		
	green / red READY / ERROR LED	•	•	•	•	
Output type:					\square	
	PNP, NO		•			
	NPN, NO	•		•	\square	
Output current:	≤ 100 mA	•	٠	•		
Saturation voltage:	≤ 2 V	•	•	•		
Response time:	500 μs	•	•	•		
Max. switching frequency:	1 kHz	•	•	•		
Operating mode:			\square			
	light with <i>EASYtouch</i> ™	•	•	•		
	dark / light configurable	•	•	•		
Timing function:	20 ms minimum output ON	-				
Auxiliary functions:	remote	•			•	
	keylock ^₄			•		
Connection:			f	Ľ	Ħ	
	2 m Ø 4 mm cable⁵	•	•		\square	
	M12 4-pole connection ⁶		1	•		
Electrical protection:	class 2			•		
Mechanical protection:	IP67		•	•		
Protection devices:	A, B ⁷		•	•	•	2
Housing material:	ABS		-	•		
Lens material:	window in PMMA ⁸		-			
Weight:			Ť	Ľ	۲Ť	
	90 g max.				\square	4
	40 g max.			•		
Operating temperature:	-25 +55 ℃	•		•		
Storage temperature:	-25 +55 ℃ -25 +70 ℃		-	•		
	EN 60947-5-2					
Reference standard:	EN 0094/-0-2			•		i

axial optics - 2 m cable	e	
S60-PA-2-M08-NH	956201500	NPN
S60-PA-2-M08-PH	956201350	PNP

SELECTION TABLE

axial optics - M12 connector				
S60-PA-5-M08-NH 956201220 NPN				
S60-PA-5-M08-PH	956201080	PNP		

All the ordering codes and information are summarised in the last pages of this catalogue

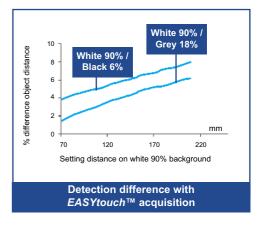
TEC	HNI	CAL	NOT	ES

¹ Limit values

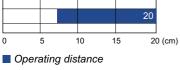
 2 Average life of 100.000 h with T_A = +25 $^\circ \mathrm{C}$

- ³ Connect to 0 V when remote wire not used
 - ⁴ Active with remote at +Vdc at power on
- ⁵ PVC, 4 x 0.14 mm²
- ⁶ Connector can be blocked on two positions
 ⁷ A reverse polarity protection
- A reverse polarity protection
 B overload and short-circuit protection
 Internal lenses in Polycarbonate









L-M BACKGROUND SUPPRESSION WITH RED LASER EMISSION

8 4

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60

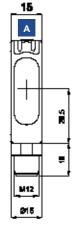
DIMENSIONS

The background suppression with red laser emission offers the best precision in terms of resolution and for background suppression, over which the object is not detected. The class 1 laser emission, according to EN 60825-1, guarantees maximum safety for the operators in all applications.

214

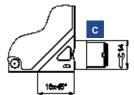
23.0

D(((





D





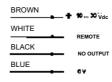
Teach-in button for setting. $EASYtouch^{TM}$ provides two setting modes: standard or fine. Please refer to instructions manual for operating details.

ACCESSORIES

For **dedicated accessories** refer to the **ACCESSORIES** section of this catalogue.

Refer also to Connectors (A.03) and Fixing Brackets (A.04) of the General Catalogue

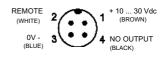






CONNECTIONS

_____ S60-PA-5





10 cm 🖪

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TECHNICAL DATA

		Z		z	<u> </u>
		NN-80M-C-14-09S	S60-PI -2-M08-PP	S60-PI -5-M08-NN	S60-PL-5-M08-PP
		M-2	N-C	N S	-Z
		4	1	14	1
		S60	995	995	260
On constinue distances	5 10				+
Operating distance:	<u>5 10 cm</u>	•	_	_	+
Power supply:	10 30 Vdc ¹	•			_
Ripple:	≤ 2 Vpp	•	-	-	
Consumption:	≤ 60 mA	•	-	_	•
Light emissione:	red Laser 650 nm ²	•			<u>)</u>
	class 1 EN 60825-1				+-
	class II CDRH21 CFR 1040.10				_
Resolution:	approx. 0.5 mm at 6 cm	•			
Setting:					\perp
	teach-in push-button	•	-	-	-
	remote on cable ³	•		_	-
Setting procedure:	EASYtouch™	•			•
Indicators:					
	yellow OUTPUT LED	•	_	_	•
	green / red LASER ON / ERROR LED	•			•
Output type:					
	PNP, NO				•
	NPN, NO				
Output current:	≤ 100 mA	•			•
Saturation voltage:	$\leq 2 V$	•			
Response time:	500 μs				
Switching frequency:	1 kHz	•			
Operating mode:					T
_ .	light with <i>EASYtouch</i> ™				•
	dark / light configurable				•
Timing function:	20 ms minimum output ON				•
Auxiliary functions:				T	+
	remote				•
	keylock ⁴	•			
Connection:	Region			T	+
	2 m Ø 4 mm cable ⁵	•			+
	M12 4-pole connector 6				
Electrical protection:	class 2	•		-	-
Mechanical protection:	IP67		-		-
Protection devices:	A. B ⁷		_		-
Housing material:	ABS		_	_	-
Lens material:	window in PMMA [®]		_	_	-
Weight:				+	1
Treight.	90 g max.	•		+	+
	40 g max.				
Operating temperature	-10 +50°C			_	
Operating temperature:	-10 +50°C -25 +70°C	•	-	-	<u>'</u>
Storage temperature:		•	-	_	<u> </u>
Reference standard:	EN 60947-5-2,			1	<u>'</u>
	EN 60825-1, CDRH21 CFR 1040.10			1	<u>ין</u>

SELECTION TABLE

axial optics - 2 m cable				
S60-PL-2-M08-NH 956201580 NPN				
S60-PL-2-M08-PH 956201440 PNP				
· · · ·				
axial optics - M12 connector				

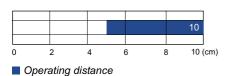
S60-PL-5-M08-NH	956201280	NPN
S60-PL-5-M08-PH	956201160	PNP

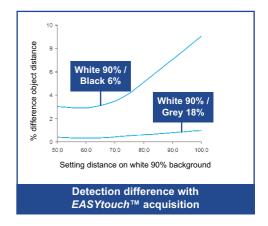
All the ordering codes and information are summarised in the last pages of this catalogue

TE	CHN	NIC	AL N	101	TES

- ¹ Limit values
- 2 Average life of 50.000 h with $T_{\rm A}$ = +25 $^{\circ}{\rm C}$
- ³ Connect to 0 V when remote wire not used
- ⁴ Active with remote at +Vdc at power on
- ⁵ PVC, 4 x 0.14 mm²
- ⁶ Connector can be blocked on two positions
- ⁷ A reverse polarity protection
 B overload and short-circuit protection
- ⁸ Internal lenses in glass and Polycarbonate

CE CU US LISTED (X)II3D







N FORE-BACKGROUND SUPPRESSION WITH RED EMISSION

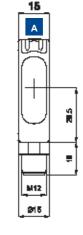
8 ð

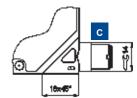
The forground and background suppression proximity allows to precisely adjust the minimum and maximum detection distance. The EASYtouch[™] setting procedure fixes automatically the best detection conditions with medium or high precision, simply pressing once the teach-in push-button.

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DIMENSIONS

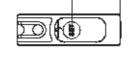




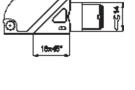


Α









Output status and

READY/ERROR LEDs

INDICATORS AND SETTINGS



Teach-in button for setting.

EASYtouch™ provides two setting modes: standard or fine. Please refer to instructions manual for operating details.

10 _ 39 Vdd

REMOTE

DV

NO OUTPUT

ACCESSORIES

For dedicated accessories refer to the ACCESSORIES section of this catalogue.

Refer also to Connectors (A.03) and Fixing Brackets (A.04) of the General Catalogue



BROWN

WHITE

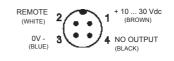
BLACK

BLUE

CONNECTIONS



S60-PA-5



DATASENSOR

20 cm 🛤

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TECHNICAL DATA

$\begin{array}{c c c c c c c } \hline Operating distance: 7 \dots 20 \ cm \\ \hline Power supply: 10 \dots 30 \ Vdc ^1 \\ \hline Ripple: \leq 2 \ Vpp \\ \hline Consumption: \leq 50 \ mA \\ \hline Light emission: red \ LED \ 670 \ nm^2 \\ \hline Spot dimension: approx. 16 \ mm at 20 \ cm \\ \hline Setting: & & & & & & & & & & & & & & & & & & &$		S60-PA-2-N03-PF	S60-PA-5-N03-NF	S60-PA-5-N03-PH
Power supply: 10 30 Vdc 1 Ripple: ≤ 2 Vpp Consumption: ≤ 50 mA Light emission: red LED 670 nm² Spot dimension: approx. 16 mm at 20 cm Setting:	•		•	
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	•		•	
Light emission: red LED 670 nm² Spot dimension: approx. 16 mm at 20 cm Setting: teach-in push-button remote on cable³ EASYtouch™ Indicators: yellow OUTPUT LED green / red READY / ERROR LED Output type: PNP, NO NPN, NO Output current: ≤ 100 mA Saturation voltage: ≤ 2 V Response time: 500 µs Max. switching frequency: 1 kHz	•		•	
Spot dimension: approx. 16 mm at 20 cm Setting: teach-in push-button remote on cable ³ Setting procedure: EASYtouch™ Indicators: yellow OUTPUT LED green / red READY / ERROR LED Output type: PNP, NO NPN, NO Output current: ≤ 100 mA Saturation voltage: Saturation voltage: ≤ 2 V Response time: 500 µs Max. switching frequency: 1 kHz	•		•	
Setting: teach-in push-button remote on cable³ Setting procedure: EASYtouch™ Indicators: yellow OUTPUT LED green / red READY / ERROR LED Output type: PNP, NO NPN, NO Output current: ≤ 100 mA Saturation voltage: ≤ 2 V Response time: 500 µs Max. switching frequency: 1 kHz	•		•	
teach-in push-button remote on cable ³ Setting procedure: EASYtouch™ Indicators: yellow OUTPUT LED green / red READY / ERROR LED green / red READY / ERROR LED Output type: PNP, NO Output current: ≤ 100 mA Saturation voltage: ≤ 2 V Response time: 500 µs Max. switching frequency: 1 kHz	•		•	
remote on cable³ Setting procedure: EASYtouch™ Indicators: yellow OUTPUT LED green / red READY / ERROR LED Output type: PNP, NO Output current: ≤ 100 mA Saturation voltage: ≤ 2 V Response time: 500 µs Max. switching frequency: 1 kHz		Γ	Т	\square
Setting procedure: EASYtouch™ Indicators: yellow OUTPUT LED green / red READY / ERROR LED Output type: PNP, NO Output current: ≤ 100 mA Saturation voltage: ≤ 2 V Response time: 500 µs Max. switching frequency: 1 kHz	•			
Indicators: yellow OUTPUT LED green / red READY / ERROR LED Output type: PNP, NO Output current: ≤ 100 mA Saturation voltage: ≤ 2 V Response time: 500 μs Max. switching frequency:	•			
green / red READY / ERROR LED Output type: PNP, NO NPN, NO Output current: ≤ 100 mA Saturation voltage: ≤ 2 V Response time: 500 μs Max. switching frequency:	•		•	
Output type: PNP, NO NPN, NO NPN, NO Output current: ≤ 100 mA Saturation voltage: ≤ 2 V Response time: 500 µs Max. switching frequency: 1 kHz	•		•	
PNP, NO NPN, NO Output current: ≤ 100 mA Saturation voltage: ≤ 2 V Response time: 500 μs Max. switching frequency: 1 kHz	•			
NPN, NO Output current: ≤ 100 mA Saturation voltage: ≤ 2 V Response time: 500 μs Max. switching frequency: 1 kHz				
Output current: ≤ 100 mA Saturation voltage: ≤ 2 V Response time: 500 μs Max. switching frequency: 1 kHz		•		٠
Saturation voltage: ≤ 2 V Response time: 500 μs Max. switching frequency: 1 kHz	•		•	
Response time: 500 μs Max. switching frequency: 1 kHz	•			
Max. switching frequency: 1 kHz	•			
	•			
Operating mode:	•			٠
light with <i>EASYtouch</i> ™	•			٠
dark / light configurable	•		•	٠
Auxiliary functions: remote	•		•	
keylock⁴	•			
Connection:			Т	
2 m Ø 4 mm cable⁵	•			
M12 4-pole connector ⁶			•	•
Electrical protection: class 2	•			٠
Mechanical protection: IP67	•			
Protection devices: A, B ⁷	•			
Housing material: ABS	•			
Lens material: window in PMMA [®]	•		•	٠
Weight:				
90 g max.	•			
40 g max.				
Operating temperature: -25 +55 C	•			
Storage temperature: -25 +70 C	•		•	
Reference standard: EN 60947-5-2				

axial optics - 2 m cab	le	
S60-PA-2-N03-NH	956201520	NPN
S60-PA-2-N03-PH	956201370	PNP

SELECTION TABLE

axial optics - M12 connector				
S60-PA-5-N03-NH	956201240	NPN		
S60-PA-5-N03-PH	956201090	PNP		

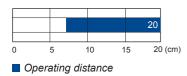
All the ordering codes and information are summarised in the last pages of this catalogue

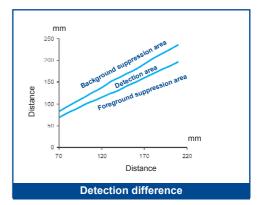
TECHNICAL NOTES

- ¹ Limit values
- 2 Average life of 100.000 h with T_A = +25 $^\circ\mathrm{C}$
- ³ Connect to 0 V when remote wire not used
- ⁴ Active with remote at +Vdc at power on
- ⁵ PVC, 4 x 0.14 mm²
- ⁶ Connector can be blocked on two positions
- ⁷ A reverse polarity protection B - overload and short-circuit protection
 ⁸ Internal lenses in Polycarbonate



DETECTION DIAGRAMS





Note: in the acquisition mode, the fore-background suppression points are programmable

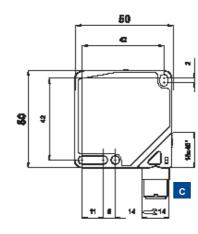


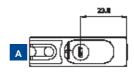
W CONTRAST SENSOR WITH WHITE EMISSION

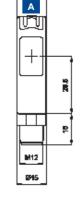
The white light LED emission is designed for the detection of a large number of coloured or greyscale contrasts, in order to detect print registration marks or similar. The patent-covered EASYtouch™ setting procedures automatically selects the best detection conditions, simply by pressing the teach-in push-button once. A higher level of accuracy can be obtained or the dark/light operating mode can be inverted.

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DIMENSIONS



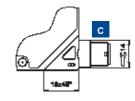




15

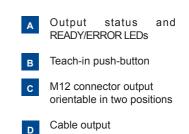






INDICATORS AND SETTINGS





Teach-in button for setting. *EASYtouch*[™] provides two setting modes: standard or fine. Please refer to instructions manual for operating details.

ACCESSORIES

For **dedicated accessories** refer to the **ACCESSORIES** section of this catalogue.

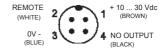
Refer also to Connectors (A.03) and Fixing Brackets (A.04) of the General Catalogue

BROWN	+	10 30 ' Vde
WHITE		REMOTE
BLACK		
BLUE		

S60-PA-2

CONNECTIONS

S60-PA-5



19 mm

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TECHNICAL DATA

SELE	CTIOI	N TABL	.E

		S60-PA-2-W08-NH	S60-PA-2-W08-PH	S60-PA-5-W08-NH	S60-PA-5-W08-PH
Operating distance:	19 mm	•	•	•	•
Max. field of depth:	– 2 mm	•	٠	•	•
Power supply:	10 30 Vdc 1	•		•	•
Ripple:	≤ 2 Vpp	•	٠	•	•
Consumption:	≤ 30 mA	•	٠	•	•
Light emission:	white LED 400 - 700 nm 2	•	٠	•	•
Spot dimension:	aprox. 3.5 mm at 19 mm	•	٠	•	•
Resolution:	0.5 mm	•	•	•	•
Setting:					Ē
	teach-in push-button	•	•	•	•
	remote on cable ³	•	•	•	•
Setting procedure:	EASYtouch™	•	-	•	
Indicators:			Ľ	Ē	F
	vellow OUTPUT LED	•	•	•	
	green / red READY / ERROR LED			•	
Output type:	green rearren bir en ton teb		-	-	-
Output type.	PNP, NO		•		
	NPN. NO		-		-
Output current:	≤ 100 mA		•	•	
Saturation voltage:	≤ 2 V	•			
Response time:	100 μs				
Max. switching frequency:	5 kHz			•	
Operating mode:	J KHZ		•	•	-
Operating mode.	dark with <i>EASYtouch</i> ™	•	•	•	
			-	-	
Time in a francé i a ma	automatic dark / light with fine acquisition	•	•	•	
Timing function:	20 ms minimum output ON		•	•	-
Auxiliary functions:					-
	remote	•	-	•	
0	keylock ⁴	•	•	•	•
Connection:	0 m 0 4 m 4 h 1 h 5			-	-
	2 m Ø 4 mm cable⁵	•	•		
	M12 4-pole connector ⁶		•		
Electrical protection:	class 2	•	-	-	
Mechanical protection:	IP67	•	•	•	•
Protection devices:	A, B 7	•	•	•	
Housing material:	ABS	•	•	•	
Lens materiale:	window in glass (tilted anti-reflection) ^a	•	•	•	•
Weight:					
	90 g max.	•	•		
	40 g max.			۰	
Operating temperature:	-25 +55°C	•	٠	۰	•
Storage temperature:	-25 +70°C	•	٠	٠	•
Reference standard:	EN 60947-5-2		٠	٠	

contrast sensor - 2 m cab S60-PA-2-W08-NH 956201550 NPN S60-PA-2-W08-PH 956201400 PNP contrast sensor - M12 co

contrast sensor - INTZ connector				
S60-PA-5-W08-NH	95621030	NPN		
S60-PA-5-W08-PH	95621020	PNP		

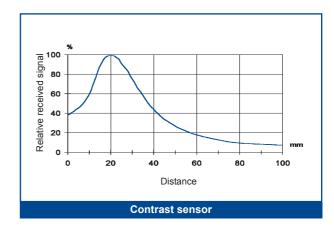
All the ordering codes and information are summarised in the last pages of this catalogue

TECHNICAL NOTES

- ¹ Limit values
- 2 Average life of 100.000 h with $T_{\rm A}$ = +25 $^{\circ}{\rm C}$
- $^{\rm 3}$ Connect to 0 V when remote wire not used
- ⁴ Active with remote at +Vdc at power on
- ⁵ PVC, 4 x 0.14 mm²
- ⁶ Connector can be blocked on two positions
- ⁷ A reverse polarity protection
 B overload and short-circuit protection
- ⁸ Internal lenses in glass

DETECTION DIAGRAMS

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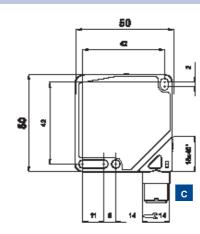
DATASENSOR

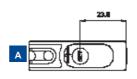
U LUMINESCENCE SENSOR WITH UV EMISSION

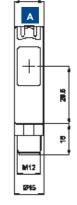
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The UV light LED emission detects any luminescent reference, even on very reflective surfaces, such as ceramics, metal or mirrored glass. The patent-covered *EASYtouch*TM setting procedures fixes automatically the best detection conditions, simply by pressing the teach-in push-button once, with the reference to detect. The threshold between two different luminescence degrees can be set by a second pressure of the button

DIMENSIONS







15

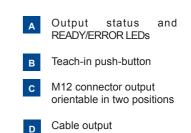






INDICATORS AND SETTINGS





Teach-in button for setting. EASYtouch™ provides two setting modes: standard or fine. Please refer to instructions manual for operating details.

10 ... 30' Vdd

REMOTE

Ο٧

NO OUTPUT

ACCESSORIESCONNECTIONSFor dedicated accessories refer to the
ACCESSORIES section of this catalogue.Image: Connectors (A.03) and Fixing
Brackets (A.04) of the General CatalogueS60-PA-2S60-PA-5

BROWN

WHITE

BLACK

BLUE

DATASENSOR

40 mm 📭

TECHNICAL DATA

		S60-PA-2-L108-NH	S60-PA-2-1108-PH	S60-PA-5-U08-NH	S60-PA-5-U08-PH
Operating distance:	0 40 mm				
Power supply :	10 30 Vdc1				•
Ripple:	≤ 2 Vpp				•
Consumption:	≤ 30 mA				•
Light emission:	LED UV 370 nm ²				•
Spot dimension:	approx. 1.5 mm at 10 mm (max. signal)				•
Resolution:	0.5 mm				•
Setting:				Т	
	teach-in push-button		•		•
	remote on cable ³				
Setting procedure:	EASYtouch™				•
Indicators:			Τ	Т	
	yellow OUTPUT LED				•
	green / red READY / ERROR LED				•
Output type:			Γ	Т	
	PNP, NO				•
	NPN, NO))
Output current:	≤ 100 mA				
Saturation voltage:	$\leq 2 V$				
Response time:	250 μs				
Max. switching frequency:	2 kHz				•
Operating mode:			Τ	Т	
	light with <i>EASYtouch</i> ™				
	automatic dark / light with fine acquisition				•
Timing function:	20 ms minimum output ON				
Auxiliary functions:	·		Τ	Τ	T
	remote				
	keylock ⁴				•
Connection:					
	2 m Ø 4 mm cable⁵				
	M12 4-pole connector 6				•
Electrical protection:	class 2			1	
Mechanical protection:	IP67				•
Protection devices:	A, B ⁷				
Housing material:	ABS) •
Lens material:	window in glass (tilted anti-reflection) ^a)
Weight:					
	90 g max.				
	40 g max.)
Operating temperature:	-25 +55 C				
Storage temperature:	-25 +70 C		•		•
Reference standard:	EN 60947-5-2				

S60-PA-2-U08-NH	956201540	NPN
S60-PA-2-U08-PH	956201390	PNP

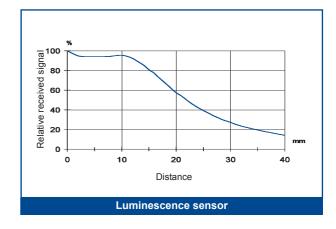
SELECTION TABLE

S60-PA-5-U08-NH	956201010	NPN		
S60-PA-5-U08-PH	956201000	PNP		

All the ordering codes and information are summarised in the last pages of this catalogue

TECHNICAL NO	TES
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- ¹ Limit values
- 2 Average life of 100.000 h with $T_{\rm A}$ = +25 °C
- ³ Connect to 0 V when remote wire not used
- ⁴ Active with remote at +Vdc at power on
- ⁵ PVC, 4 x 0.14 mm²
- ⁶ Connector can be blocked on two positions
- ⁷ A reverse polarity protection
 B overload and short-circuit protection
- ⁸ Internal lenses in glass

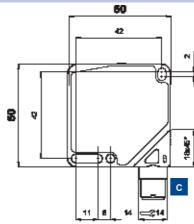


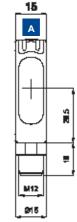
Y DISTANCE SENSOR WITH RED EMISSION

This sensor gives an analogue 0-10 Vdc output proportional to the target distance in the measurement range, with the possibility of setting a threshold for the other switching output. The yellow LED indicates the activation of the output during switching while the red LED turns on when the object is outside the measurement range.

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DIMENSIONS

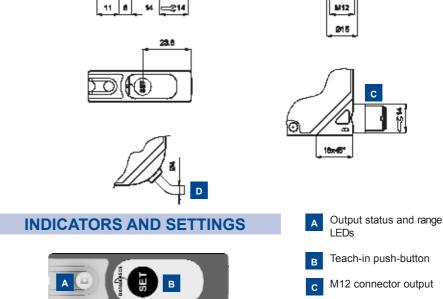




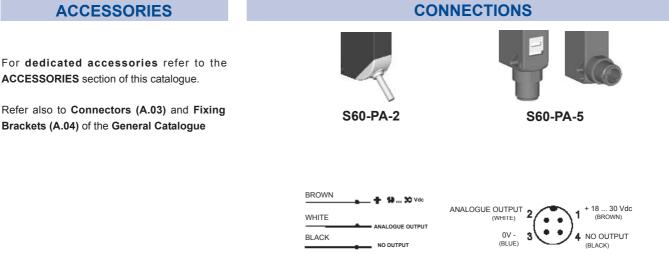
Cable output

D





Teach-in button for setting. EASYtouch™ provides two setting modes: standard or fine. Please refer to instructions manual for operating details.



ACCESSORIES section of this catalogue.

Refer also to Connectors (A.03) and Fixing Brackets (A.04) of the General Catalogue



đ٧

BLUE

150 mm

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TECHNICAL DATA

		S60-PA-2-Y03-NV	S60-PA-2-Y03-PV	S60-PA-5-Y03-NV	S60-PA-5-Y03-PV
Operating distance:	50 150 mm ¹			•	٠
Power supply:	18 30 Vdc ²		•	٠	٠
Ripple:	≤ 2 Vpp		•	٠	
Consumption:	≤ 60 mA		•	٠	٠
Light emission:	red LED 670 nm 3		٠	٠	٠
Spot dimensions:	approx. 16 mm at 150 mm		•	٠	٠
Setting:	teach-in push-button			•	
Setting procedure:	EASYtouch™		•	•	٠
Indicators:					
	yellow OUTPUT LED		•	•	
	red FIELD LED		•	•	
Output type:					\square
	PNP, NO		•		٠
	NPN. NO			•	
	analogue with 0 10 V (8 bit)	•	•	•	٠
Minimum resistance load:	1 Kw	•	•	•	٠
Output current:	≤ 100 mA	•	•	•	•
Saturage voltage:	<2V		•	-	•
Response time:	1 ms		•	•	•
Switching frequency:	500 Hz	•	•	-	•
Resolution:	1 mm (linearity ± 2.5 %)	•	•	•	•
Operating mode:		+	1	\vdash	\square
oporating model	light with <i>EASYtouch</i> ™	•	•	•	
	automatic dark / light fine acquisition		-	-	•
	configurable direct/inverse proportionality		-	-	•
Switching output hysterisis:	10 % max.		-	-	•
Connection:	10 /0 max.	+	-	F	-
oonneotion.	2 m Ø 4 mm cable ⁴	•	•	\vdash	\square
	M12 4-pole connector ⁵	-			•
Electrical protection:	class 2		•	•	•
Mechanical protection:	IP67		-		•
Protection devices:	A. B ⁶		•	•	•
Housing material:	ABS	•	•		•
Lens material:	window in PMMA ⁷	•	•		-
Weight:			F	F	-
weight.	90 g max.		•	-	
			ľ		
Operating temperature:	40 g max. -25 +55°C	+		F	
Operating temperature:	-25 +55 C -25 +70°C		•	╞	
Storage temperature: Reference standard:	-25 +70 C EN 60947-5-2				
Reference Stanuaru.	LN 00347-0-2			-	

	SEL	ECT	ION	TAB	LE	
ance	sensor	- 2 m ca	ble			

distance sensor - 2 m cable						
S60-PA-2-Y03-NV	956201680	NPN				
S60-PA-2-Y03-PV	956201690	PNP				
distance sensor - M12 connector						

distance sensor - M12	connector	
S60-PA-5-Y03-NV	956201700	NPN
S60-PA-5-Y03-PV	956201710	PNP

All the ordering codes and information are summarised in the last pages of this catalogue

TECHNICAL NOTES

¹ Measurement field can be reduced at device setting

² Limit values

 3 Average life of 100.000 h with $T_{\rm A}$ = +25 $^{\circ}{\rm C}$

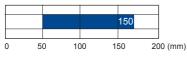
⁴ PVC, 4 x 0.14 mm²

⁵ Connector can be blocked on two positions
 ⁶ A - reverse polarity protection

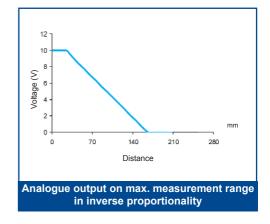
⁶ A - reverse polarity protection B - overload and short-circuit protection 7. Internal longer in Polycorhapote

7 Internal lenses in Polycarbonate





Operating distance

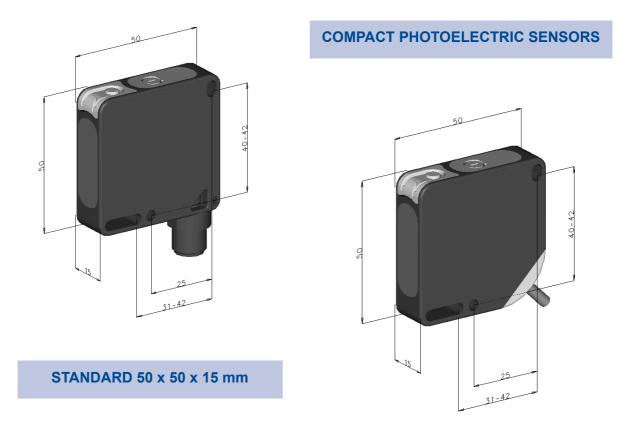




TECHNOLOGY ADVANTAGES

The **S60** series establishes the new market standard in the compact 50 x 50 mm fotoelectric sensors, offering a complete family of optic functions with only 15 mm housing width.

The standard dimensions, reduced housing width and the multi-hole fixing system make the **S60** series compatible with the majority of compact sensors present on the market.



(mm)

All the models are available in cable or M12 connector versions, with NPN or PNP type static output, conforming to the EN 60947-5-2 European standard.

The M12 connector can be easily rotated to 90° and can be blocked in the straight or right-angle positions respect to the optic axis, the cable emerges at 45° and thanks to its flexibility can rotate pratically 360°. Thanks to these characteristics the sensor can be easily fixed on all sides and at all angles.

All the basic optic functions such as the through beam, polarised retroreflex, diffuse proximity and background suppression are available also in the version with visible red laser emission, with all the safety charateristics for the user in class 1 conforming to the EN 60825-1 European standard and in class II according to CDRH21 CFR Part 1040 USA standard.

Besides the evident advantages for the alignment of sensors and of the object to detect, thanks to the high spot visibility and concentration, the laser emissions offer an improved detection resolution, millimetric for the through beam and polarised retroreflex versions, or decimillimetric for the diffuse proximity and background suppression.

The polarised retroreflex model is available also in the coaxial optic version that, with the emitter optic axis coinciding with the receiver one, offers a better detection axis precision and the elimination of the blind zone near to the sensor.

TECHNOLOGY ADVANTAGES

The coaxial optics is present also in the polarised retroreflex model for the detection of transparent objects, notably increasing the performances of this optic function and its immunity to object movements inside the detection area.

The contrast sensor with white LED emission has an operating distance ranging from 17 to 21 mm and detects coloured or grey-scale marks, with a minimum dimension of 0.5 mm and an operating frequency reaching 5 kHz.

The luminescence sensor with UV LED emission has an operating distance ranging from 0 to 40 mm and detects fluorescent or luminescent targets, with a minimum dimension of 0.5 mm and an operating frequency reaching 2 kHz.

The setting of these sensors is extremely rapid and easy, thanks to the patent-covered *EASYtouch*[™] system that allows to automatically fix the object detection threshold, with a single pressure of the teach-in push-button.

It is possibile to set the sensor to detect more critical differences between the mark and the background, or invert the dark or light operating mode, by pressing twice the push-button.

The *EASYtouch*[™] system allows to select the 'Remote' function for the remote sensor setting through the cable or connector, the 'Keylock' function to block the keyboard, 'Delay OFF' function for the 20 ms timing of the output deactivation.

The sensor technology with background and/or foreground suppression of the **S60** series has allowed to develop also a cost-effective distance sensor with a double output: a 0 - 10 V analogue output and a digital NPN or PNP switching output.

The measurement range and the switching threshold output can be selected in the 50 - 150 mm range, with a \pm 1 mm precision; the direct or inverse proportionality and the light or dark operating mode can be selected.

SMT chip-size for the electronic miniaturisation and more space for the optics

COAXIAL OPTICS



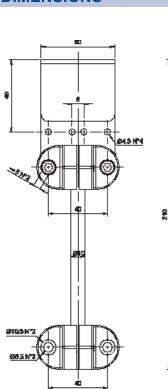


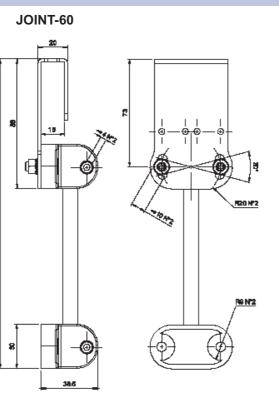
Complete external shield for high electromagnetic compatibility

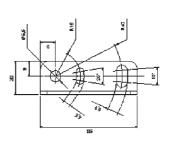


DIMENSIONS

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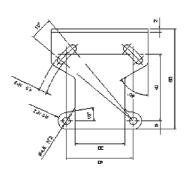




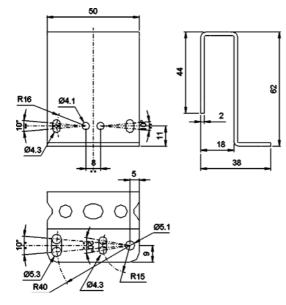


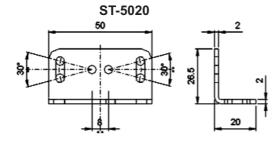
ST-504

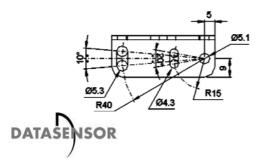
ACCESSORIES



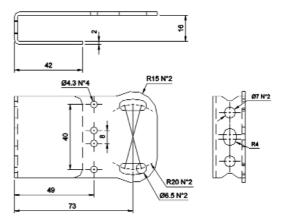
ST-5018

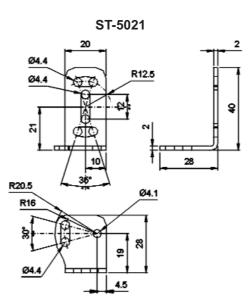






ST-5019





ACCESSORIES

The series is compatible with the following Datasensor accessories (refer General Catalogue)

- CS connectors
- R reflectors

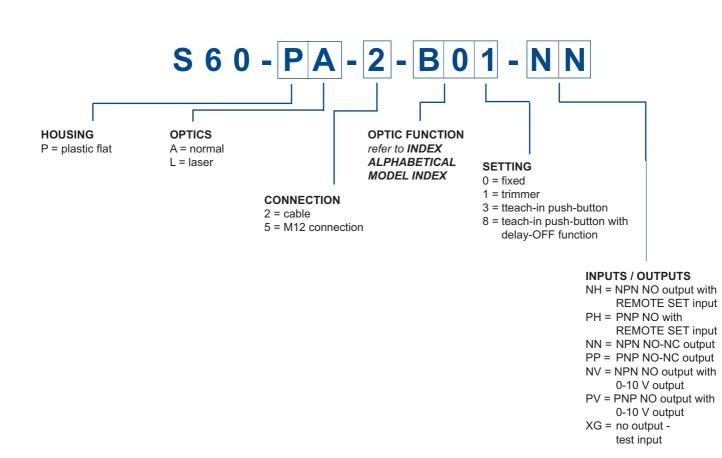
New accessories dedicated to the **S60** series have been developed to cover all the fixing requirements and improve functioning.

SELECTION TABLE AND ORDER INFORMATION

MODEL	DESCRIPTION	ORDER N°
ST-5018	protection bracket	95ACC5310
ST-5019	protection bracket	95ACC5320
ST-5020	fixing bracket	95ACC5330
ST-5021	fixing bracket	95ACC5340
JOINT-60	protection bracket with jointed support	95ACC5350
ST-504	S6/S60 fixing bracket	95ACC1320

ACCESSORIES

MODEL CODING TABLE



Note: Not all code combinations are available. Please refer to alphabetical model index for the list of available models.

580 PA-2-B01-NN polarised retroreflex cable PNN 955201300 6 580 PA-2-B51-NN coaxial polarised retroreflex cable PNN 955201300 6 580 PA-2-B51-NN coaxial polarised retroreflex cable PNN 955201400 8 580 PA-2-B51-NN coaxial polarised retroreflex cable PNN 955201310 16 580 PA-2-C11-PP diffuse proximity cable PNP 955201310 16 580 PA-2-C11-PP diffuse proximity cable PNP 955201330 2 580 PA-2-C11-PP receiver cable PNP 955201330 2 580 PA-2-F01-PP receiver cable PNP 955201350 20 580 PA-2-F01-PP background suppression cable PNP 955201350 2 580 PA-2-110-PH background suppression cable PNP 955201350 2 580 PA-2-108-PH background suppression cable PNP 955201350 12 580 PA-2-108-PH ba	MODEL	FUNCTION	CONNECTION	OUTPUT	N ORDER	PAGE
560-PA-2-B51-NN coaxial polarised retroeffex cable NPN 956201610 8 560-PA-2-B51-PP coaxial polarised retroeffex cable NPN 956201400 14 560-PA-2-C01-NN diffuse proximity cable NPN 956201400 14 560-PA-2-C01-NP diffuse proximity cable NPN 956201300 14 560-PA-2-C01-NP integravimity cable NPN 956201300 2 560-PA-2-C01-NP receiver cable NPN 956201300 2 560-PA-2-M08-PH background suppression cable NPN 956201300 2 560-PA-2-M03-PH background suppression cable NPN 956201300 24 560-PA-2-M03-PH background suppression cable NPN 956201300 12 560-PA-2-W03-NH fore-background suppression cable NPN 956201300 12 560-PA-2-W03-NH uminescence sensor cable NPN 956201130 12 560-PA-2-W04-NH d	S60-PA-2-B01-NN	polarised retroreflex	cable		956201460	6
560-PA-2-61-NN caxial polarised retroreflex cable PNP 956201470 14 560-PA-2-C01-NN diffuse proximity cable PNP 956201470 14 560-PA-2-C01-PP diffuse proximity cable PNP 956201470 14 560-PA-2-F01-NN forget proximity cable PNP 956201400 2 560-PA-2-F01-NN receiver cable PNP 956201400 2 560-PA-2-F01-NN receiver cable PNP 956201100 2 560-PA-2-F03-NH background suppression cable PNP 956201100 2 560-PA-2-003-FH fore-background suppression cable PNP 956201370 24 560-PA-2-003-FH fore-background suppression cable PNP 95620130 12 560-PA-2-008-HI tuminescence sensor cable PNP 95620130 12 560-PA-2-008-HI tuminescence sensor cable PNP 95620130 28 560-PA-2-008-HI tuminescence sensor		polarised retroreflex				
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560-PA-2-C11-NP Iong diffuse proximity cable NPN 966201480 16 560-PA-2-C10-PP recevier cable NPN 96520130 2 560-PA-2-C10-PP recevier cable NPN 96520130 2 560-PA-2-M06-NH background suppression cable NPN 95620130 2 560-PA-2-M06-NH background suppression cable NPN 956201350 20 560-PA-2-M03-NH fore-background suppression cable NPN 956201370 24 560-PA-2-M03-NH fore-background suppression cable NPN 95620130 12 560-PA-2-M03-NH fore-background suppression cable NPN 95620130 12 560-PA-2-M03-NH fore-background suppression cable NPN 95620130 12 560-PA-2-M03-NH fore-background suppression cable NPN 95620160 26 560-PA-2-M03-NH fumesconce sensor cable NPN 95620160 26 560-PA-2-M03-NH						
560-PA-2-C11-PP long diffuse proximity cable PNP 966201320 16 560-PA-2-F01-NN recevier cable PNP 966201330 2 560-PA-2-600-XG emitter cable PNP 95620130 2 560-PA-2-000-XG emitter cable NPN 95620130 2 560-PA-2-100-NH tocksground suppression cable NPN 95620130 2 560-PA-2-100-NH for background suppression cable NPN 95620130 12 560-PA-2-100-NH for background suppression cable NPN 95620130 12 560-PA-2-100-NH luminescence sensor cable NPN 956201530 12 560-PA-2-100-NH luminescence sensor cable NPN 95620150 26 560-PA-2-100-NH luminescence sensor cable NPN 95620150 26 560-PA-2-100-NH distance sensor cable NPN 95620160 30 560-PA-2-100-NH distance sensor cable </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
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560-PR-2-F01-PP receiver cable PNP 962201330 2 560-PR-2-M08-NH background suppression cable NPN 956201500 20 560-PR-2-M08-PH background suppression cable NPN 956201530 20 560-PR-2-M03-PH fore-background suppression cable NPN 956201530 24 560-PR-2-M03-PH fore-background suppression cable NPN 956201530 12 560-PR-2-M03-PH fore-background suppression cable NPN 956201530 12 560-PR-2-M04-PH luminescence sensor cable NPN 956201540 28 560-PR-2-M04-PH contrast sensor cable NPN 956201540 26 560-PR-2-M04-PH contrast sensor cable NPN 95620150 26 560-PR-2-M04-PH distance sensor cable NPN 95620160 30 560-PR-2-M04-PH distance sensor cable NPN 95620160 30 560-PR-2-G01-PH distance se						
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via Lavino, 265 - 40050 Monte San Pietro, BO - Italy Tel. +39 051/6765611 • Fax +39 051/6759324 www.datasensor.com • e-mail info@datasensor.com

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