COMPACT SENSORS

S6

Multivoltage 50x50 mm compact sensors series

- 50x50 mm compact dimensions
- Free voltage Vac/Vdc models with relay output
- 10-30 Vdc model with transistor output
- Standard cable or M12 4-pole connection



APPLICATIONS

- -Automatic machines
- -Packaging lines
- -Transportation lines
- -Automatic warehouses











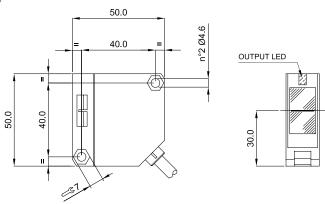




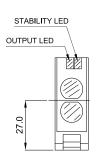
S6			
Through beam		020 m	
Retroreflective (on R2 reflector)		0,16 m	
Polarized retroreflective (on R2 reflector)		0,15 m	
Difference and the second seco		10900 mm	
Diffuse proximity		102000 mm	
Background suppression		30100 mm	
		30250 mm	
		100500 mm	
Power supply	Vdc	1030 V	
	Vac		
	Vac/dc	15264 Vac/Vdc	
	PNP		
	NPN	•	
Output	NPN/PNP		
•	relay		
	other		
Connection	cable	r	
	connector		
	pig-tail		
Approximate dimensions (mm)		18x50x50	
Housing material		ABS	
Mechanical protection		IP65	

	TECHNICAL DATA	
Power supply	10 30 Vdc limit values (mod. S6/S6T/S6R-5)	
т омет заррту	15 264 Vac/Vdc (48 60 Hz) limit values (mod. S6-1)	
Ripple	2 Vpp max.	
Consumption (output current excluded)	30 mA max. (mod. S6/S6T/S6R-5)	
consumption (output current exchange)	40 mA max. (mod. S6-1)	
Light emission	IR LED 880 nm	
ū	red LED 660 nm (mod. S6/S6R/S6TB/M10)	
Setting	sensivity trimmer (excl. mod. S6G, S6R-5-M)	
	adjustment screw (mod. S6/S6T/S6R-5-M)	
	LIGHT/DARK selection by cable or connector (mod. S6/S6T/S6R-5)	
Operating mode	LIGHT/DARK selection by N.O./N.C. output (mod. S6R-5-M)	
	LIGHT/DARK selection by trimmer (mod. S6-1)	
Indicators	red OUTPUT LED (excl. mod. S6G), POWER LED (mod. S6G)	
mateutors	green STABILITY LED (mod. S6-5-M25)	
	NPN/PNP (mod. S6)	
Output	PNP (mod. S6T)	
Output	NPN or PNP; NC; NO (mod. S6R)	
	Relay 1 NO and NC contact 250 Vac, 30 Vdc min. applicable load 5 Vdc, 10 mA (mod. S6-1)	
Output current	100 mA max., 3 A max. (mod. S6-1)	
Saturation voltage	1,5 V max. (NPN/PNP output)	
	1 ms max.	
Response time	2 ms max. (mod. S6/S6R/S6TF/G)	
	30 ms max. (mod. S6-1)	
	500 Hz	
Switching frequency	250 Hz max. (mod. S6/S6R/S6TF/G)	
	16 Hz (mod. S6-1)	
Connection	2 m cable Ø 6 mm (mod. S6-1), 2 m cable Ø 5 mm (mod. S6-5), M12 4-pole connector (mod. S6T-S6R)	
Dielectric strength	500 Vac, 1 min between electronics and housing	
Insulating resistance	>20 MΩ, 500 Vdc between electronics and housing	
Electrical protection	class 2, class 1 (mod. S6-1)	
Mechanical protection	IP65	
Ambient light rejection	according to EN 60947-5-2	
Vibrations	0,5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6)	
Shock resistance	11 ms (30 G) 6 shock for every axis (EN60068-2-27)	
Housing material	ABS UL 94V-0	
Lens material	PMMA plastic	
Operating temperature	-25 55 °C	
Storage temperature	-25 70 °C	
Weight	160 g max. cable vers., 40 g max. conn. vers.	

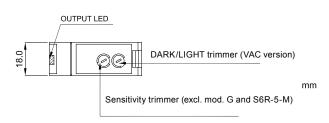
DIMENSIONS

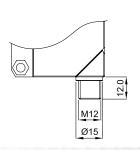






M12 Connector



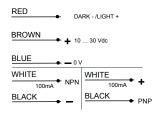


COMPACT SENSORS

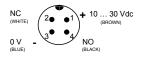
CONNECTIONS

VDC MODELS

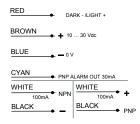
NPN/PNP version



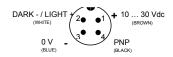
NPN or PNP and NC/NO version



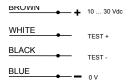
Through beam receiver -NPN/PNP version



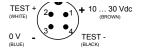
PNP version



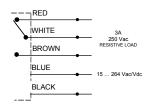
Through beam emitter -NPN/PNP version



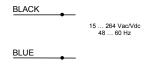
Through beam emitter - PNP version



VAC MODELS



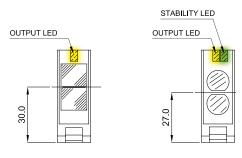
Through beam emitter

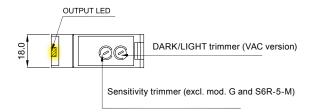


INDICATORS AND SETTINGS

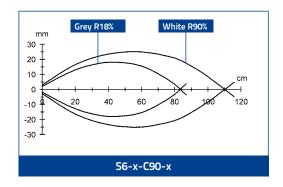


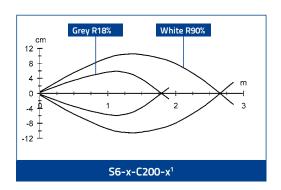
Background suppression

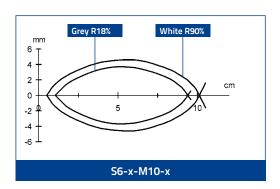


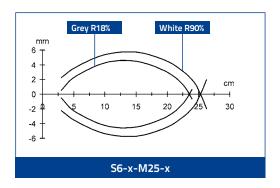


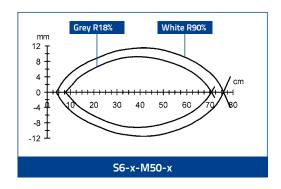
DETECTION DIAGRAMS

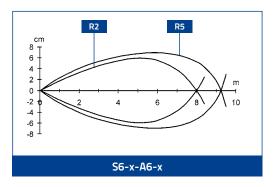


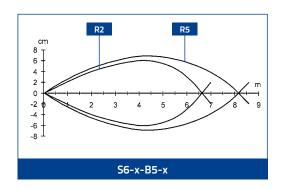


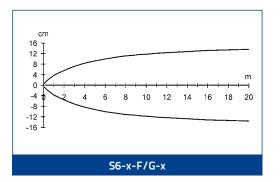












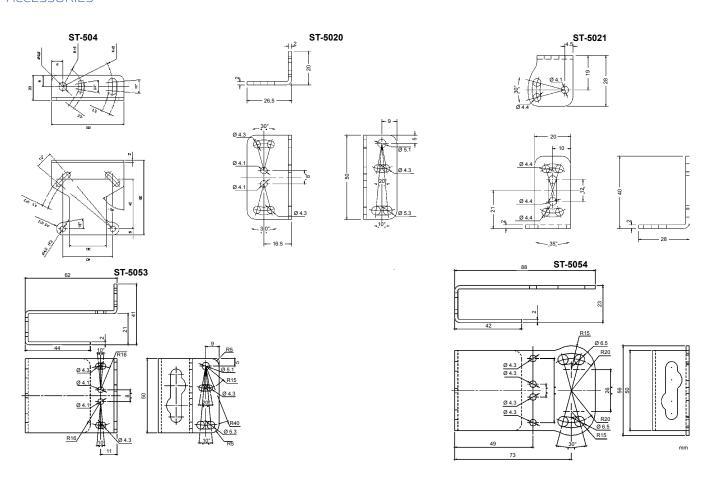
The detection diagrams indicate the typical operating distance with excess gain 1.

COMPACT SENSORS

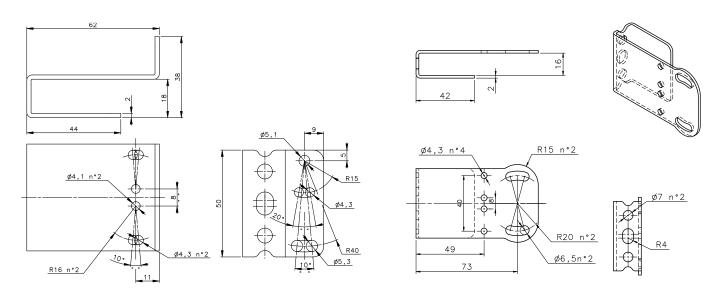
MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	OPERATING	POWER SUPPLY	OUTPUT	MODEL	ORDER No.
Short diffuse proximity		15264 V A.C.	relay SPDT 250V/3A	S6-1-C90	S937530090
	10, 000		NPN/PNP	S6-5-C90	S937530000
	10900 mm	1030 V D.C.	PNP N.O./N.C.	S6R-5-C90-P	950201190
			PNP	S6T-5-C90-P	961031020
	102000 mm	15264 V A.C.	relay SPDT 250V/3A	S6-1-C200	950151140
Long diffuse provincity			NPN/PNP	S6-5-C200	950201150
Long diffuse proximity		1030 V D.C.	PNP N.O./N.C.	S6R-5-C200-P	950201200
			NPN N.O./N.C.	S6R-5-C200-N	956101050
		15264 V A.C.	relay SPDT 250V/3A	S6-1-A6	S937330090
Retroreflective	0,16 m (on R2 reflector)		NPN/PNP	S6-5-A6	S937330000
Retrorenective	U, T6 III (UII RZ PEHECLUF)	1030 V D.C.	PNP	S6T-5-A6-P	961031000
			PNP N.O./N.C.	S6R-5-A6-P	950201170
Polarized retroreflective	0,15 m (on R2 reflector)	15264 V A.C.	relay SPDT 250V/3A	S6-1-B5	5937420090
			NPN/PNP	S6-5-B5	S937420000
		1030 V D.C.	PNP N.O./N.C.	S6R-5-B5-P	950201180
			PNP	S6T-5-B5-P	961031010
	30100 mm		PNP N.O./N.C.	S6R-5-M10-P	950201230
	30250 mm		NPN/PNP	S6-5-M25	S937830000
Declarated suppression		1030 V D.C.	PNP N.O./N.C.	S6R-5-M25-P	950201220
Background suppression		1030 V D.C.	NPN N.O./N.C.	S6R-5-M25-N	956101080
			PNP	S6T-5-M25-P	961041000
	100500 mm		PNP N.O./N.C.	S6R-5-M50-P	950201250
Through beam (Receiver)	020 m	15264 V A.C.	relay SPDT 250V/3A	S6-1-F20	S937200090
			NPN/PNP	S6-5-F20	S937200010
		1030 V D.C.	PNP N.O./N.C.	S6R-5-F20-P	950201160
			PNP	S6T-5-F20-P	961211010
		15264 V A.C.	-	S6-1-G20	S937130090
Through beam (Emitter)	-	1030 V D.C.	-	S6-5-G20	S937130000
(Elificter)		1030 V D.C.	-	S6T-5-G20	961211000

ACCESSORIES



ST-5019 ST-5018



MODEL	DESCRIPTION	ORDER No.
ST-5018	protective bracket	95ACC5310
ST-5019	protective bracket	95ACC5320
ST-5020	mounting bracket	95ACC5330
ST-5021	mounting bracket	95ACC5340
ST-504	mounting bracket	95ACC2820
ST-5053	protective bracket	95ACC2410
ST-5054	protective bracket	95ACC2420
JOINT-S62	protective bracket with jointed support	95ACC2430

CABLES

TYPE	DESCRIPTION	LENGTH	MODEL	ORDER No.
Axial M12 Connector		3 m	CS-A1-02-G-03	95A251380
	/ DVC	5 m	CS-A1-02-G-05	95A251270
	4-pole, grey, P.V.C.	7 m	CS-A1-02-G-07	95A251280
		10 m	CS-A1-02-G-10	95A251390
	/ rala DIID	2 m	CS-A1-02-R-02	95A251540
	4-pole, P.U.R.	5 m	CS-A1-02-R-05	95A251560
Radial M12 Connector		3 m	CS-A2-02-G-03	95A251360
	/ pala gray DVC	5 m	CS-A2-02-G-05	95A251240
	4-pole, grey, P.V.C.	7 m	CS-A2-02-G-07	95A251245
		10 m	CS-A2-02-G-10	95A251260
	/ polo DIID	2 m	CS-A2-02-R-02	95A251550
	4-pole, P.U.R.	5 m	CS-A2-02-R-05	95A251570
Radial M12 Connector		3 m	CS-A2-12-G-03	95A251400
with LED	4-pole, grey, P.V.C.	5 m	CS-A2-12-G-05	95A251350
(for PNP N.O. sensors)		10 m	CS-A2-12-G-10	95A251370
		3 m	CV-A1-22-B-03	95ACC1480
		5 m	CV-A1-22-B-05	95ACC1490
Axial M12 Connector		10 m	CV-A1-22-B-10	95ACC1500
	4-pole, shielded, black,	15 m	CV-A1-22-B-15	95ACC2070
	P.V.C.	25 m	CV-A1-22-B-25	95ACC2090
		3 m	CV-A2-22-B-03	95ACC1540
Radial M12 Connector		5 m	CV-A2-22-B-05	95ACC1550
		10 m	CV-A2-22-B-10	95ACC1560
		3 m	CS-A1-02-U-03	95ASE1120
		5 m	CS-A1-02-U-05	95ASE1130
Axial M12 Connector	4-pole, U.L., black, P.V.C.	10 m	CS-A1-02-U-10	95ASE1140
Axial M12 Connector		15 m	CS-A1-02-U-15	95ASE1150
		25 m	CS-A1-02-U-25	95ASE1160
	/ I- I-I-I	Connector- not cabled	CS-A1-02-B-NC	G5085002
Radial M12 Connector	4-pole, black	Connector- not cabled	CS-A2-02-B-NC	G5085003