# S50/S51

Extended range of standard "One for All" photoelectric tubular M18 sensors

- All optic functions and LASER models
- M18 flat plastic with universal mounting
- Available in M18 metal housing
- Axial or radial optics, cable or connector
- Standard 4-wire NO-NC NPN or PNP output



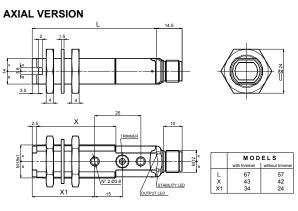
APPLICATIONS		
-Processing and Packaging machinery -Conveyor lines, material handling -Ceramics intralogistics -Automated warehousing		
S50/S51		ATEX II 3DG
Through beam		020 m 060 m (class 1 LASER) (S50)
Retroreflective (on R2 reflector)		0,14 m
Polarized retroreflective		0,14 m (S50) 0,13 m (S51)
		0,116 m (class 1 LASER) (S50)
Retroreflective for transparent (on R2 reflector)		0,11,3 m (S50) short distance 0100 mm
		medium distance 0400 mm (S50) 0450 mm (S51)
Diffuse proximity		long distance 0700 mm
		long distance LASER 0350 mm
Fixed focus		100 mm (S50)
Background suppression		50100 mm (S50)
Through beam with fiber optic		0100 mm (S50)
Diffuse proximity with fiber optic		030 mm (S50)
Contrast sensor		10 ±2 mm
Luminescence sensor		020 mm
Devenuent	Vdc	1030 V
Power supply	Vac Vac/dc	
	PNP	
	NPN	
Output	NPN/PNP	
	relay	
	other	
	cable	
Connection	connector	•
	pig-tail	
Approximate dimensions (mm)		M18x 55/68
Housing material		PBT, nickel plated brass
Mechanical protection		IP67

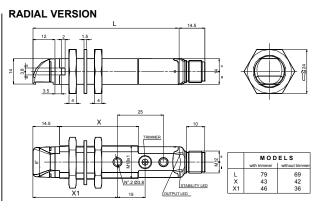
	TECHNICAL DATA			
Power supply	10 30 Vdc (limit values)			
Ripple	2 Vpp max.			
	35 mA max. (mod. S50A00/B01/C01/C10/C21/D00/E01/T01)			
Consumption (output current excluded)	30 mA max. (mod. \$50F01/M03, \$51A00/B01/C01/C10/C20/F00)			
	25 mA max. (mod. S50W03/U03)			
	red LED 630 nm (mod. S50D00/E01, S50-PA/MAM03)			
	red LED 660 nm (mod. S50B01/T01, S51B01)			
	red LED 670 nm (mod. S50-PS/MSM03)			
Light emission	IR LED 880 nm (mod. S50/51A00/C01/C10/C20/C21/G00)			
-	white LED 400-700 nm (mod. S50W03)			
	UV LED 370 nm (mod. S50U03)			
	red Laser 650 nm (mod. S50G00/F01/B01/C01)			
	sensivity trimmer (mod. B01/C01/C21/E01/F01/T01)			
Setting	teach-in push-button (mod. M03/W03/U03)			
	LIGHT mode on N.O. output / DARK mode on N.C. output (mod.S50C01/C10/C21/D00/M03/U03)			
	DARK mode on N.O. output / LIGHT mode on N.C. output (mod.S50A00/B01/E01/F01/T01/W03)			
Operating mode	white wire or pin 2 connected to +1030V LIGHT mode/ to 0V DARK mode (mod. S51)			
	white wire or pin 2 not connected LIGHT mode (mod. S51C01/C10/C20)/ DARK mode (mod. S51A00/B01/F00)			
	yellow OUTPUT LED (S50, S51, excl. mod. G00)			
Indicators	green STABILITY LED (mod. S50B01/C01/C21/E01/F01), POWER LED (mod. S50G00, S51)			
indicators	green/red READY/ERROR LED (mod. S50M03/W03/U03)			
Output	PNP or NPN; NO; NC (mod. S50)			
Output current	100 mA max.			
Saturation voltage	2 V max.			
Saturation voltage	0,5 ms (mod. S50A00/B01/T01/C10/C21/C01/D00/E01/U03)			
	2 ms (mod. S50F01/G00)			
	1 ms (mod. 550103, S51400/B01/C01/C10/G00)			
Response time	4 ms (mod. 551F00)			
	100 μs (mod. S50V03)			
	333 µs (Laser mod. S50) 1 kHz (mod. S50A00/B01/T01/C10/C21/C01/D00/E01/U03)			
	250 Hz (mod. S50F01/G00)			
Switching frequency	500 Hz (mod. S50M03, S51A00/B01/C01/C10/G00)			
	120 Hz (mod. 551F00)			
	5 kHz (mod. S50W03) 1,5 kHz (Laser mod. S50)			
Connection				
Connection Dielectric strength	2 m cable Ø 4 mm, M12 4-pole connector 500 Vac, 1 min between electronics and housing			
Dielectric strength	$>20 M\Omega$ , 500 Vdc between electronics and housing			
Insulating resistance	•			
Electrical protection	class 2			
Mechanical protection	IP67			
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	Plastic version PBT			
-	Metal version nickel plated brass			
Lens material	PMMA			
Operating temperature	-25 55 °C			
	(Laser mod.) -10 50 °C			
Storage temperature	-25 70 °C			
Weight	Plastic version 75 g max. cable vers. (90 g max. mod. MO3), 25 g max. conn. vers. (40 g max. mod. MO3)			
	Metal version 110 g max. cable vers. (125 g max. mod. MO3), 60 g max. conn. vers. (75 g max. mod. MO3)			

### **S50**

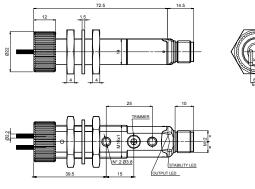
#### DIMENSIONS

#### PLASTIC



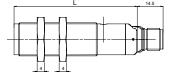


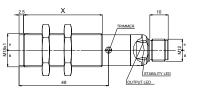
FIBRE OPTIC VERSION

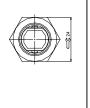


#### METAL

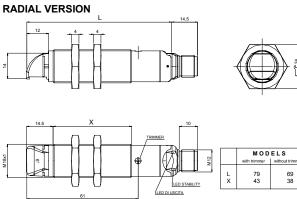
#### AXIAL VERSION



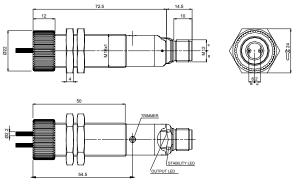








#### FIBRE OPTIC VERSION

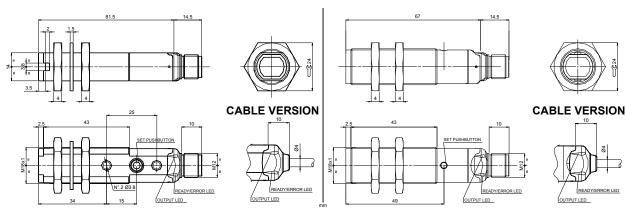




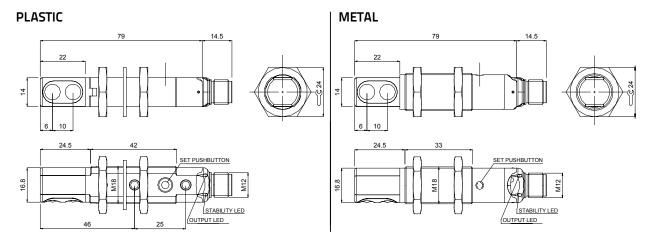
#### BACKGROUND SUPPRESSION AXIAL VERSION



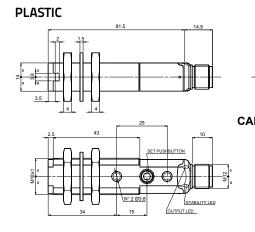
METAL

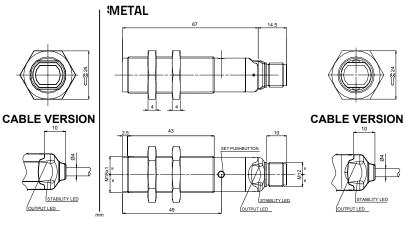


BACKGROUND SUPPRESSION RADIAL VERSION



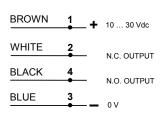
#### LUMINESCENCE AND CONTRAST



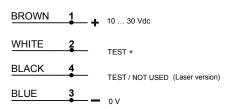


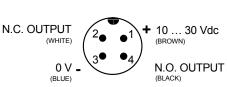
#### CONNECTIONS

#### CABLE



Through beam emitter





M12 CONNECTOR

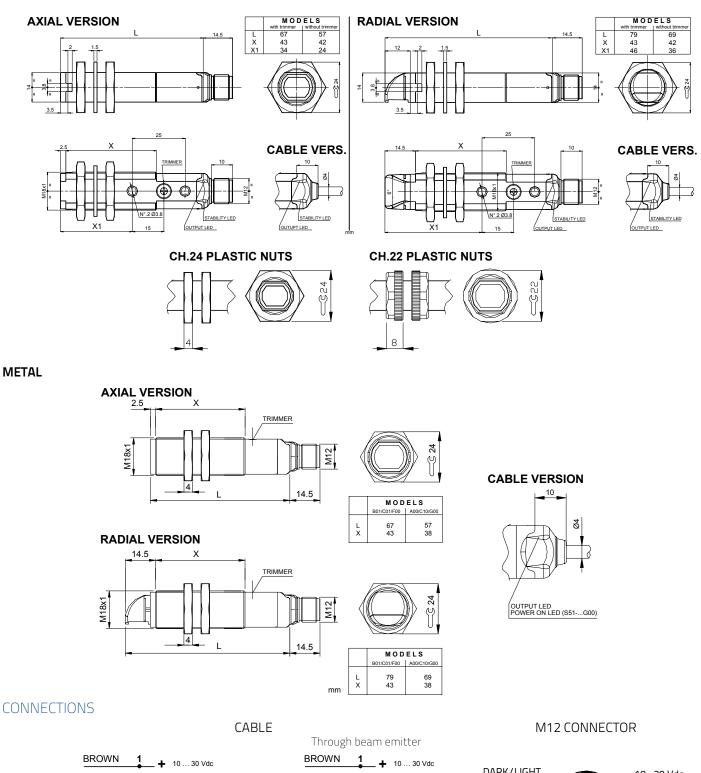
READY/E

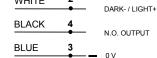
PUTLED

### S51

#### DIMENSIONS

#### PLASTIC

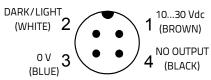




2

WHITE

BROWN	1	► 10 30 V
WHITE	2	TEST +
BLACK	4	TEST -
BLUE	3	- 0V
		•••



### S50/S51

#### INDICATORS AND SETTINGS

#### S50-XX...A00/B01/C01/C21/E01/F01/T01 S51-XX...B01/C01



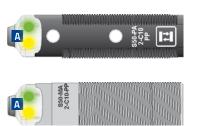
Single-turn trimmer for sensitivity adjustment. Rotate in a clockwise direction to increase the operating distance.



OUTPUT status LED Yellow READY LED Green ERROR LED Red

Teach-in button for setting.

EASYtouch™ provides two setting modes: standard or fine, both obtained by pressing the push-button only once. Please refer to instructions manual for operating details.

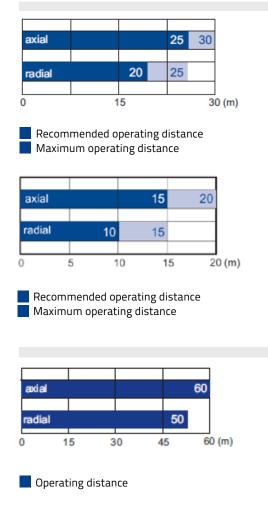


S50-XX-C10 S51-XX-A00/C10/C20/F00/G00

> A00/C10/C20/F00 A OUTPUT status LED Yellow STABILITY LED green

> > G00 OUTPUT status LED yellow (Only Emitter GOO)

#### **S50 DETECTION DIAGRAMS**



60

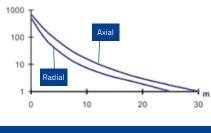
60 (m)

50

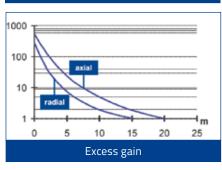
45

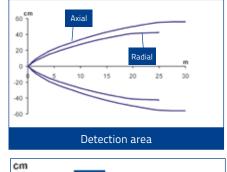
30

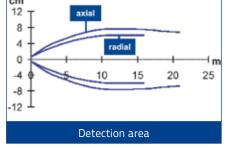
**G/F INFRARED EMISSION** 



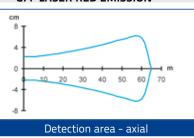
Excess gain

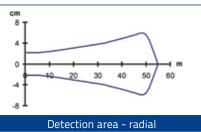


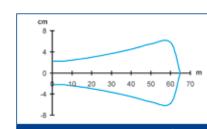




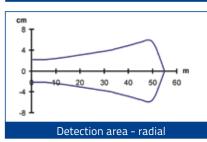
**G/F LASER RED EMISSION** 

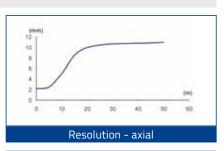


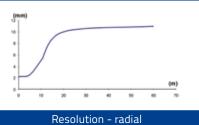


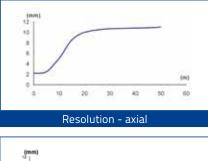


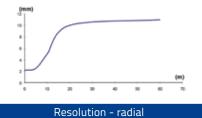
Detection area - axial











axial

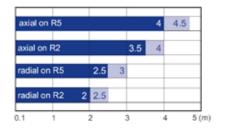
radial

15

Operating distance

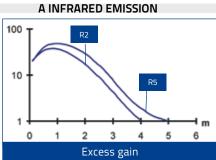


#### Operating distance



Recommended operating distance Maximum operating distance

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



**BINFRARED EMISSION** 

R2

100

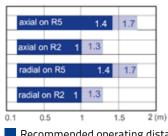
#### cm R5 5 3 -3 ,A Detection area

#### cm 5 3 à Detection area - axial cm 4 2 0 -2 4 Detection area - radial

#### axial on R2 axial on R7 11 radial on R2 9 radial on R7 6 12 8 16 (m)

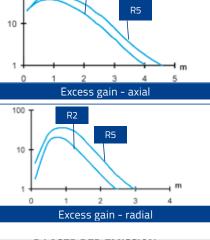
Operating distance

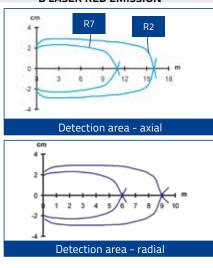
High efficiency reflectors can be used to obtain larger operating distances. Refer to Reflectors (A.01).



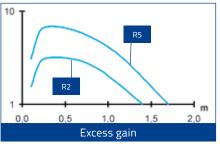
Recommended operating distance Maximum operating distance

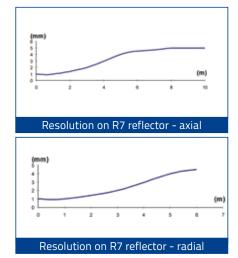
High efficiency reflectors can be used to obtain larger operating distances. Refer to Reflectors.

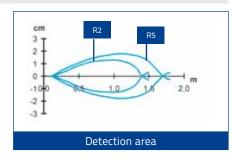




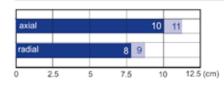
#### T RED EMISSION



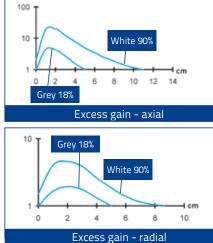


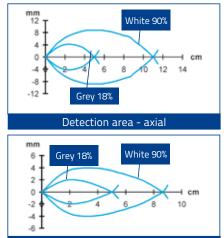


### **B LASER RED EMISSION**

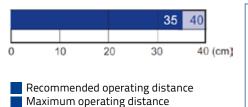


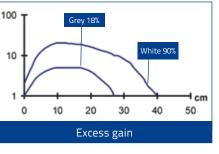
Recommended operating distance Maximum operating distance



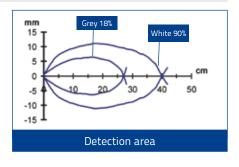


\_\_\_\_6 **I** Detection area - radial



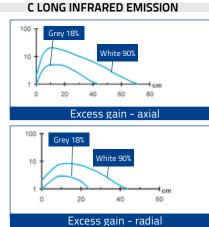


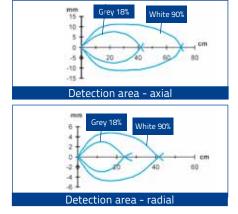
**C MID INFRARED EMISSION** 

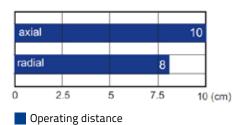


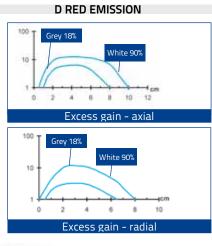


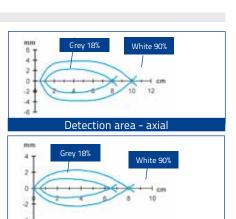
Recommended operating distance Maximum operating distance





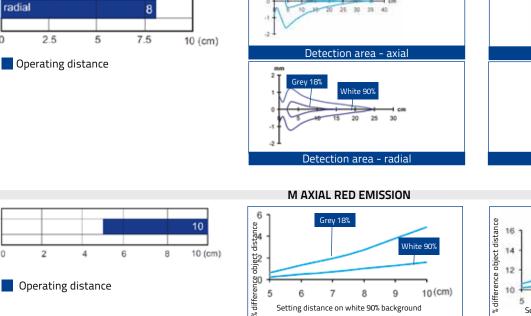






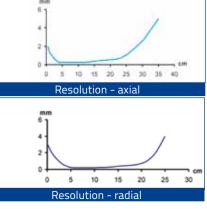
Detection area - radial

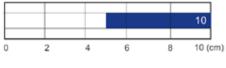
## C SHORT INFRARED EMISSION



6

7



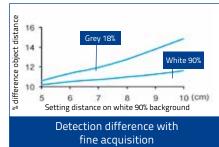


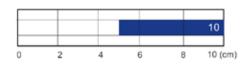
Operating distance

Operating distance

axial

0



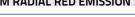




Setting distance on white 90% background

Detection difference with

EASYtouch<sup>™</sup> acquisition



8

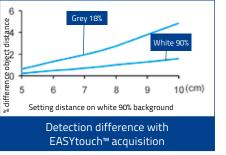
9

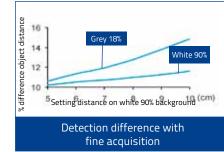
**CLASER RED EMISSION** 

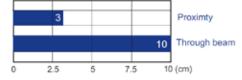
White 90%

Grey 18%

10



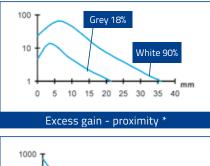




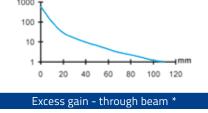
Operating distance with standard fibers

Standard Fiber-optics: OF-42-ST-20 proximity OF-43-ST-20 through beam

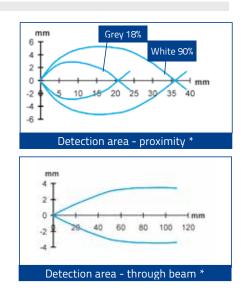
High efficiency fiber-optics or accessory lenses can be used to obtain larger operating distances. Refer to Fiber-optics of the General Catalogue



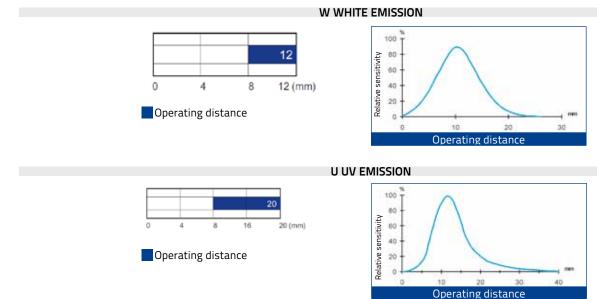
E RED EMISSION



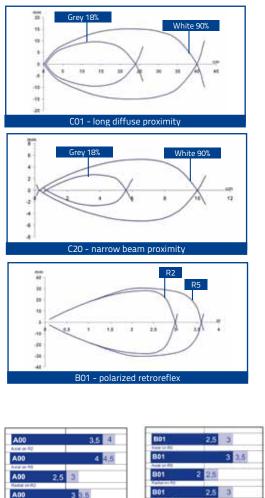
\* standard Fiber-optics



10 (cm)

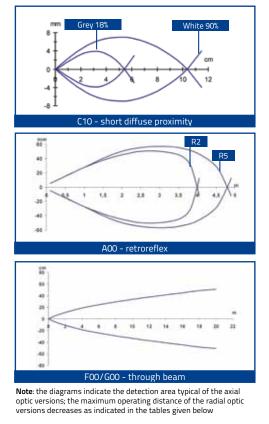


#### S51 DETECTION DIAGRAMS





#### M18 STANDARD



 F/G
 18
 20

 Array
 FIG
 15
 18

 Frida
 15
 18
 00
 10
 20 (m)

Recommended operating distance Maximum operating distance

C01

C01

### MODEL SELECTION AND ORDER INFORMATION

		S50 PLASTIC MODELS			
OPTIC FUNCTION	EMISSION	CONNECTION	OUTPUT	MODEL	ORDER No.
		2m Cable	NPN	S50-PA-2-A00-NN	952002090
Retroreflective	LED, Axial optic		PNP	S50-PA-2-A00-PP	952002080
		M12 Connector	NPN	S50-PA-5-A00-NN	952002110
			PNP	S50-PA-5-A00-PP	952002100
		2m Cable	NPN	S50-PA-2-B01-NN	952001610
	LED, Axial optic		PNP	S50-PA-2-B01-PP	952001010
		M12 Connector	NPN	S50-PA-5-B01-NN	952001500
-			PNP	S50-PA-5-B01-PP	952001020
		2m Cable	NPN	S50-PR-2-B01-NN	952001780
	LED, Radial optic		PNP	S50-PR-2-B01-PP	952001030
		M12 Connector	NPN	S50-PR-5-B01-NN	952001720
Polarized retroreflective			PNP	S50-PR-5-B01-PP	952001040
		2m Cable	NPN	S50-PL-2-B01-NN	952001870
	LASER, Axial optic		PNP	S50-PL-2-B01-PP	952001360
		M12 Connector	NPN	S50-PL-5-B01-NN	952001840
			PNP	S50-PL-5-B01-PP	952001370
		2m Cable	NPN	S50-PH-2-B01-NN	952001950
	LASER, Radial optic		PNP	S50-PH-2-B01-PP	952001940
		M12 Connector	NPN	S50-PH-5-B01-NN	952001970
			PNP	S50-PH-5-B01-PP	952001960
		2m Cable	NPN	S50-PA-2-C01-NN	952001620
	LED, Axial optic		PNP	S50-PA-2-C01-PP	952001050
		M12 Connector	NPN	S50-PA-5-C01-NN	952001510
-			PNP	S50-PA-5-C01-PP	952001060
		2m Cable	NPN	S50-PR-2-C01-NN	952001790
	LED, Radial optic	2 cabie	PNP	S50-PR-2-C01-PP	952001070
		M12 Connector	NPN	S50-PR-5-C01-NN	952001730
Long Diffuse proximity			PNP	S50-PR-5-C01-PP	952001080
Ç , ,	LASER, Axial optic	2m Cable	NPN	S50-PL-2-C01-NN	952001880
			PNP	S50-PL-2-C01-PP	952001380
		M12 Connector	NPN	S50-PL-5-C01-NN	952001850
			PNP	S50-PL-5-C01-PP	952001390
		2m Cable	NPN	S50-PH-2-C01-NN	952001990
	LASER. Radial optic	LASER, Radial optic	PNP	S50-PH-2-C01-PP	952001980
	,	M12 Connector	NPN	S50-PH-5-C01-NN	952002010
			PNP	S50-PH-5-C01-PP	952002000
		2m Cable	NPN	S50-PA-2-C10-NN	952001630
	LED, Axial optic		PNP	S50-PA-2-C10-PP	952001240
		M12 Connector	NPN	S50-PA-5-C10-NN	952001520
Short Diffuse proximity			PNP	S50-PA-5-C10-PP	952001250
		2m Cable	NPN	S50-PR-2-C10-NN	952001800
	LED, Radial optic		PNP	S50-PR-2-C10-PP	952001490
	LED, Hadiai optic	M12 Connector	NPN	S50-PR-5-C10-NN	952001740
			PNP	S50-PR-5-C10-PP	952001480
		2m Cable	NPN	S50-PA-2-C21-NN	952002170
Medium Diffuse proximity	LED, Axial optic		PNP	S50-PA-2-C21-PP	952002160
medium binuse proximity	בבט, אאמי סדוונ	M12 Connector	NPN	S50-PA-5-C21-NN	952002190
			PNP	S50-PA-5-C21-PP	952002180
		2m Cable	NPN	S50-PA-2-D00-NN	952001640
	LED, Axial optic	ZITI CAUR	PNP	S50-PA-2-D00-PP	952001090
	בבט, אאומו טורני	M12 Connector	NPN	S50-PA-5-D00-NN	952001530
Fixed focus			PNP	S50-PA-5-D00-PP	952001100
FIXED IUCUS		2m Cable	NPN	S50-PR-2-D00-NN	952001810
	LED Dadial actic	ZIII Cable	PNP	S50-PR-2-D00-PP	952001110
	LED, Radial optic	M12 Connector	NPN	S50-PR-5-D00-NN	952001750
		M12 Connector	PNP	S50-PR-5-D00-PP	952001120
		Om Cable	NPN	S50-PA-2-E01-NN	952001650
Fiberratia		2m Cable	PNP	S50-PA-2-E01-PP	952001130
Fiber optic	LED, Axial optic	11100	NPN	S50-PA-5-E01-NN	952001540
		M12 Connector	PNP	S50-PA-5-E01-PP	952001140

OPTIC FUNCTION	EMISSION	CONNECTION	OUTPUT	MODEL	ORDER No.
		2m Cable	NPN	S50-PA-2-F01-NN	952001660
		ZITI Cable	PNP	S50-PA-2-F01-PP	952001150
	LED, Axial optic	M12 Coppositor	NPN	S50-PA-5-F01-NN	952001550
		M12 Connector	PNP	S50-PA-5-F01-PP	952001160
		2m Cable	NPN	S50-PR-2-F01-NN	952001820
	LED, Radial optic	ZITI Cable	PNP	S50-PR-2-F01-PP	952001170
	LED, Radiai Optic	M12 Connector	NPN	S50-PR-5-F01-NN	952001760
Through beam receiver		WHZ COMPECTOR	PNP	S50-PR-5-F01-PP	952001180
iniougn beam receiver		2m Cable	NPN	S50-PL-2-F01-NN	952001890
	LASER, Axial optic	2111 Cable	PNP	S50-PL-2-F01-PP	952001400
	LASER, Axiai optic	M12 Connector	NPN	S50-PL-5-F01-NN	952001860
		WHZ CONNECTOR	PNP	S50-PL-5-F01-PP	952001410
		2m Cable	NPN	S50-PH-2-F01-NN	952002030
	LASER, Radial optic	2111 Cable	PNP	S50-PH-2-F01-PP	952002020
	LASER, Raulai Optic	M12 Connector	NPN	S50-PH-5-F01-NN	952002050
		WHZ COMPECTOR	PNP	S50-PH-5-F01-PP	952002040
	LED Avial aptic	2m Cable	-	S50-PA-2-G00-XG	952001190
	LED, Axial optic	M12 Connector	-	S50-PA-5-G00-XG	952001200
		2m Cable	-	S50-PR-2-G00-XG	952001210
Through hear amittar	LED, Radial optic	M12 Connector	-	S50-PR-5-G00-XG	952001220
Through beam emitter	LASER, Axial optic	2m Cable	-	S50-PL-2-G00-XG	952001420
	LASER, Axiai optic	M12 Connector	-	S50-PL-5-G00-XG	952001430
	LASER, Radial optic	2m Cable	-	S50-PH-2-G00-XG	952002060
		M12 Connector	-	S50-PH-5-G00-XG	952002070
	LED, Axial optic		NPN	S50-PA-2-M03-NN	952001670
		2m Cable	PNP	S50-PA-2-M03-PP	952001230
		M12 Connector	NPN	S50-PA-5-M03-NN	952001560
Rackground suppression			PNP	S50-PA-5-M03-PP	952001000
Background suppression		1         2m Cable         -           M12 Connector         -         -           ptic         2m Cable         -           M12 Connector         -         -           M12 Connector         PNP         -           M12 Connector         PNP         -           M12 Connector         PNP         -	NPN	S50-PS-2-M03-NN	952001900
	LED Dadial antic		PNP	S50-PS-2-M03-PP	952001910
	LED, Radial optic	2m Cable         -           M12 Connector         -           2m Cable         -           M12 Connector         -           M12 Connector         -           2m Cable         NPN           2m Cable         NPN           M12 Connector         PNP           M12 Connector         PNP           M12 Connector         PNP           M12 Connector         NPN           M12 Connector         NPN           M12 Connector         PNP           M12 Connector         NPN           M12 Connector         NPN           PNP         2m Cable	NPN	S50-PS-5-M03-NN	952001920
			PNP	S50-PS-5-M03-PP	952001930
			NPN	S50-PA-2-T01-NN	952001690
	LED Avial antis	2111 Cable	PNP	S50-PA-2-T01-PP	952001260
	LED, Axial optic	M12 Coppositor	NPN	S50-PA-5-T01-NN	952001580
Detrovefloctive for transport		M12 Connector	PNP	S50-PA-5-T01-PP	952001270
Retroreflective for transparent			NPN	S50-PR-2-T01-NN	952001830
		2m Cable	PNP	S50-PR-2-T01-PP	952001280
	LED, Radial optic		NPN	S50-PR-5-T01-NN	952001770
		M12 Connector	PNP	S50-PR-5-T01-PP	952001290
		Om Cabla	NPN	S50-PA-2-U03-NN	952001700
		2m Cable	PNP	S50-PA-2-U03-PP	952001300
Luminescence	LED, Axial optic	1425	NPN	S50-PA-5-U03-NN	952001590
		M12 Connector	PNP	S50-PA-5-U03-PP	952001310
		2	NPN	S50-PA-2-W03-NN	952001710
		2m Cable	PNP	S50-PA-2-W03-PP	952001320
Contrast	LED, Axial optic		NPN	S50-PA-5-W03-NN	952001600
		M12 Connector	PNP	S50-PA-5-W03-PP	952001330

		S50 METAL MODELS			
OPTIC FUNCTION	EMISSION	CONNECTION	OUTPUT	MODEL	ORDER No
			NPN	S50-MA-2-A00-NN	952022090
		2m Cable	PNP	S50-MA-2-A00-PP	952022080
Retroreflective	LED, Axial optic		NPN	S50-MA-5-A00-NN	952022110
		M12 Connector	PNP	S50-MA-5-A00-PP	952022100
			NPN	S50-MA-2-B01-NN	952021500
		2m Cable	PNP	S50-MA-2-B01-PP	952021000
	LED, Axial optic		NPN	S50-MA-5-B01-NN	952021660
		M12 Connector	PNP	S50-MA-5-B01-PP	95202100
-			NPN	S50-MR-2-B01-NN	952021200
		2m Cable	PNP		
	LED, Radial optic			S50-MR-2-B01-PP	95202114
		M12 Connector	NPN	S50-MR-5-B01-NN	95202176
Polarized retroreflective			PNP	S50-MR-5-B01-PP	95202134
		2m Cable	NPN	S50-ML-2-B01-NN	952021820
	LASER, Axial optic		PNP	S50-ML-2-B01-PP	952021400
		M12 Connector	NPN	S50-ML-5-B01-NN	952021850
			PNP	S50-ML-5-B01-PP	952021440
		2m Cable	NPN	S50-MH-2-B01-NN	952021950
	LASER, Radial optic		PNP	S50-MH-2-B01-PP	952021940
	באסבול, המטומו טעונ	M12 Connector	NPN	S50-MH-5-B01-NN	952021970
		WIZ CONNECTOR	PNP	S50-MH-5-B01-PP	95202196
			NPN	S50-MA-2-C01-NN	95202151
		2m Cable	PNP	S50-MA-2-C01-PP	95202101
	LED, Axial optic –		NPN	S50-MA-5-C01-NN	95202167
		M12 Connector	PNP	S50-MA-5-C01-PP	95202121
-	LED, Radial optic		NPN	S50-MR-2-C01-NN	95202161
		2m Cable	PNP	S50-MR-2-C01-PP	95202115
		M12 Connector	NPN	S50-MR-5-C01-NN	95202175
			PNP	S50-MR-5-C01-PP	95202177
Long Diffuse proximity			NPN	S50-ML-2-C01-NN	95202133
		rial optic 2m Cable M12 Connector	PNP		
	LASER, Axial optic			S50-ML-2-C01-PP	95202141
			NPN	S50-ML-5-C01-NN	95202186
_			PNP	S50-ML-5-C01-PP	95202145
		2m Cable	NPN	S50-MH-2-C01-NN	95202199
	LASER, Radial optic		PNP	S50-MH-2-C01-PP	95202198
	,	M12 Connector	NPN	S50-MH-5-C01-NN	95202201
			PNP	S50-MH-5-C01-PP	95202200
		2m Cable	NPN	S50-MA-2-C10-NN	95202152
	LED, Axial optic	2111 Cdbic	PNP	S50-MA-2-C10-PP	95202102
	EED, Axiai Optic	M12 Connector	NPN	S50-MA-5-C10-NN	95202168
Short Diffuse proximity			PNP	S50-MA-5-C10-PP	95202122
Short Diruse htoximity		Der Cable	NPN	S50-MR-2-C10-NN	95202162
		2m Cable	PNP	S50-MR-2-C10-PP	95202149
	LED, Radial optic	1412.5	NPN	S50-MR-5-C10-NN	95202178
		M12 Connector	PNP	S50-MR-5-C10-PP	95202148
			NPN	S50-MA-2-C21-NN	952022130
		2m Cable	PNP	S50-MA-2-C21-PP	95202212
Medium Diffuse proximity	LED, Axial optic		NPN	S50-MA-5-C21-NN	95202215
		M12 Connector	PNP	S50-MA-5-C21-PP	95202213
			NPN	S50-MA-2-D00-NN	95202214
		2m Cable			
	LED, Axial optic		PNP	S50-MA-2-D00-PP	95202103
		M12 Connector	NPN	S50-MA-5-D00-NN	95202169
Fixed focus			PNP	S50-MA-5-D00-PP	95202123
		2m Cable	NPN	S50-MR-2-D00-NN	95202163
	LED, Radial optic		PNP	S50-MR-2-D00-PP	95202116
	,	M12 Connector	NPN	S50-MR-5-D00-NN	95202179
			PNP	S50-MR-5-D00-PP	95202136
		2m Cable	NPN	S50-MA-2-E01-NN	95202188
Fiber optic	LED, Axial optic	ZITI CAULE	PNP	S50-MA-2-E01-PP	952021040
riber optic	בבט, אגומו טעוונ	M10 Conn	NPN	S50-MA-5-E01-NN	952021890
		M12 Connector	PNP	S50-MA-5-E01-PP	952021240

OPTIC FUNCTION	EMISSION	CONNECTION	OUTPUT	MODEL	ORDER No.
			NPN	S50-MA-2-F01-NN	952021540
		2m Cable	PNP	S50-MA-2-F01-PP	952021050
	LED, Axial optic	M12 Connector	NPN	S50-MA-5-F01-NN	952021700
		WIZ CONNECTOR	PNP	S50-MA-5-F01-PP	952021250
		2m Cable	NPN	S50-MR-2-F01-NN	952021640
	LED, Radial optic	ZITI Cable	PNP	S50-MR-2-F01-PP	952021170
	LED, Raulai optic	M12 Connector	NPN	S50-MR-5-F01-NN	952021800
Through beam receiver		WIZ CONNECTOR	PNP	S50-MR-5-F01-PP	952021370
iniough beam receiver		2m Cable	NPN	S50-ML-2-F01-NN	952021840
	LACED Avial antic	ZIII Cable	PNP	S50-ML-2-F01-PP	952021420
	LASER, Axial optic	M12 Connector	NPN	S50-ML-5-F01-NN	952021870
		WIZ CONNECTOR	PNP	S50-ML-5-F01-PP	952021460
		2m Cable	NPN	S50-MH-2-F01-NN	952022030
	LACED DadiaLeptic	2111 Cable	PNP	S50-MH-2-F01-PP	952022020
	LASER, Radial optic	M12 Connector	NPN	S50-MH-5-F01-NN	952022050
		WIZ CONNECTOR	PNP	S50-MH-5-F01-PP	952022040
		2m Cable	-	S50-MA-2-G00-XG	952021060
	LED, Axial optic	M12 Connector	-	S50-MA-5-G00-XG	952021260
	LED, Radial optic	2m Cable	-	S50-MR-2-G00-XG	952021180
Through hears amittar		M12 Connector	-	S50-MR-5-G00-XG	952021380
Through beam emitter	LASER, Axial optic	2m Cable	-	S50-ML-2-G00-XG	952021430
		M12 Connector	-	S50-ML-5-G00-XG	952021470
	LASER, Radial optic	2m Cable	-	S50-MH-2-G00-XG	952022060
		M12 Connector	-	S50-MH-5-G00-XG	952022070
		2m Cable	NPN	S50-MA-2-M03-NN	952021550
	LED, Axial optic		PNP	S50-MA-2-M03-PP	952021070
Background suppression		M12 Connector	PNP	S50-MA-5-M03-PP	952021270
	LED Dadial aptic	2m Cable	AndersonPNPAblePNPPNPPNPPNPPNPPNPPNPablePNP </td <td>S50-MS-2-M03-PP</td> <td>952021910</td>	S50-MS-2-M03-PP	952021910
	LED, Radial optic	M12 Connector	PNP	S50-MS-5-M03-PP	952021930
		2m Cable	NPN	S50-MA-2-T01-NN	952021570
	LED Avial aptic	2111 Cable	PNP	S50-MA-2-T01-PP	952021090
	LED, Axial optic		NPN	S50-MA-5-T01-NN	952021730
		M12 Connector	PNP	S50-MA-5-T01-PP	952021290
Retroreflective for transparent			NPN	S50-MR-2-T01-NN	952021650
	LED Dadial antis	2m Cable	PNP	S50-MR-2-T01-PP	952021190
	LED, Radial optic	M12 Connector	NPN	S50-MR-5-T01-NN	952021810
		M12 Connector	PNP	S50-MR-5-T01-PP	952021390
Luminescence	LED, Axial optic	M12 Connector	PNP	S50-MA-5-U03-PP	952021300
		2m Cable	PNP	S50-MA-2-W03-PP	952021110
Contrast	LED, Axial optic	M12 C	NPN	S50-MA-5-W03-NN	952021750
		M12 Connector	PNP	S50-MA-5-W03-PP	952021310

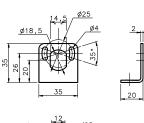
		S51 MODELS			
OPTIC FUNCTION	HOUSING/OPTIC	CONNECTION	OUTPUT	MODEL	ORDER No.
		2m Cable	NPN	S51-MA-2-A00-NK	952701601
	Nickel Plated Brass, Axial	ZIII Cable	PNP	S51-MA-2-A00-PK	952701541
	INICKEI PIALEU BLASS, AXIAI	M12 Connector	NPN	S51-MA-5-A00-NK	952701801
		IVITZ COTTIECTOR	PNP	S51-MA-5-A00-PK	952701531
		2m Cable	NPN	S51-MR-2-A00-NK	952701711
	Nickel Plated Brass, Radial	2111 Cable	PNP	S51-MR-2-A00-PK	952701651
		M12 Connector	NPN	S51-MR-5-A00-NK	952701911
Retroreflective			PNP	S51-MR-5-A00-PK	952701851
Recipientective	Plastic, Axial	2m Cable	NPN	S51-PA-2-A00-NK	952701071
			PNP	S51-PA-2-A00-PK	952701001
		M12 Connector	NPN	S51-PA-5-A00-NK	952701331
			PNP	S51-PA-5-A00-PK	952701261
			NPN	S51-PR-2-A00-NK	952701201
	Plastic, Radial –	2m Cable	PNP	S51-PR-2-A00-PK	952701131
		M12 Connector	NPN	S51-PR-5-A00-NK	952701461
		IVITZ CONNECTOR	PNP	S51-PR-5-A00-PK	952701391

OPTIC FUNCTION	HOUSING/OPTIC	CONNECTION	OUTPUT	MODEL	ORDER No.
		2m Cable	NPN	S51-MA-2-B01-NK	952701611
	Nichel Distant Design Autol	ZITI Cable	PNP	S51-MA-2-B01-PK	952701551
	Nickel Plated Brass, Axial	M12 Connector	NPN	S51-MA-5-B01-NK	952701811
		IVI 12 Connector	PNP	S51-MA-5-B01-PK	952701761
			NPN	S51-MR-2-B01-NK	952701721
		2m Cable		S51-MR-2-B01-PK	952701661
	Nickel Plated Brass, Radial				952701921
		M12 Connector			
Polarized retroreflective			NPN         S51-MA-2-BC           PNP         S51-MA-5-BC           PNP         S51-MA-5-BC           PNP         S51-MR-5-BC           PNP         S51-MR-2-BC           PNP         S51-MR-5-BC           PNP         S51-MR-5-BC           PNP         S51-MR-5-BC           PNP         S51-PA-2-BO           PNP         S51-PA-2-CO           PNP         S51-MA-2CO           PNP         S51-MA-2CO           PNP         S51-MA-2CO           PNP         S51-MA-2CO           PNP         S51-PA-2CO           PNP         S51-PA-2CO           PNP         S51-PA-2CO           PNP         S51-PA-2CO           PNP         S51-PA-2C		952701861
		2m Cable			952701081
	Plastic, Axial				952701011
		M12 Connector		S51-PA-5-B01-NK	952701341
		WHZ Connector	PNP	S51-PA-5-B01-PK	952701271
		2m Cable	NPN	S51-PR-2-B01-NK	952701211
	Disatis Dadial	2111 Cable	PNP	S51-PR-2-B01-PK	952701141
	Plastic, Radial		NPN	S51-PR-5-B01-NK	952701471
		M12 Connector		S51-PR-5-B01-PK	952701401
				S51-MA-2-C01-NK	952701621
		2m Cable			952701561
	Nickel Plated Brass, Axial				
		M12 Connector			952701821
				S51-MA-5-C01-PK	952701771
		2m Cable		S51-MR-2-C01-NK	952701731
	Nickel Plated Brass, Radial —	Zin cubic		S51-MR-2-C01-PK	952701671
	Michel Hateu Diass, Raulai	M12 Connector	NPN	S51-MR-5-C01-NK	952701931
Madium diff		IVITZ CUTHECLUF	PNP	S51-MR-5-C01-PK	952701871
iviedium diffuse proximity				S51-PA-2-C01-NK	952701091
		2m Cable		S51-PA-2-C01-PK	952701021
	Plastic, Axial			S51-PA-5-C01-NK	952701351
		M12 Connector			
					952701281
		2m Cable		S51-PR-2-C01-NK	952701221
	Plastic, Radial			S51-PR-2-C01-PK	952701151
	Plastic, Raulai	M12 Connector	NPN	S51-PR-5-C01-NK	952701481
		WITZ CONTIECTOR	PNP	S51-PR-5-C01-PK	952701411
	Nickel Plated Brass, Axial		NPN	S51-MA-2-C10-NK	952701631
		2m Cable		S51-MA-2-C10-PK	952701571
					952701831
		M12 Connector			
					952701521
		2m Cable			952701741
	Nickel Plated Brass, Radial				952701681
		M12 Connector		S51-MR-5-C10-NK	952701941
Short diffuse provimity			PNP	S51-MR-5-C10-PK	952701881
Shore and se proximity		2m Cable	NPN	S51-PA-2-C10-NK	952701101
	Directio Avial	ZIII Cable	PNP	S51-PA-2-C10-PK	952701031
	Plastic, Axial —	11105	NPN	S51-PA-5-C10-NK	952701361
		M12 Connector		S51-PA-5-C10-PK	952701291
					952701231
		2m Cable			952701161
	Plastic, Radial				
		M12 Connector			952701491
				S51-PR-5-C10-PK	952701421
Narrow beam proximity	Nickel Plated Brass, Axial	M12 Connector		S51-MA-5-C20-PK	952701961
		Om Cabla	NPN	S51-MA-2-F00-NK	952701641
	Niekol Distant Duran A. 11	2m Cable	PNP	S51-MA-2-F00-PK	952701581
	Nickel Plated Brass, Axial		NPN	S51-MA-5-F00-NK	952701841
		M12 Connector		S51-MA-5-F00-PK	952701781
					952701751
		2m Cable			
	Nickel Plated Brass, Radial				952701691
		M12 Connector		S51-MR-5-F00-NK	952701951
Through beam receiver				S51-MR-5-F00-PK	952701891
ough beam receiver		2m Cable		S51-PA-2-F00-NK	952701121
	Diactic Avial			S51-PA-2-F00-PK	952701051
	Plastic, Axial	1425	NPN	S51-PA-5-F00-NK	952701381
		M12 Connector		S51-PA-5-F00-PK	952701311
				S51-PR-2-F00-NK	95270125
		2m Cable			95270123
	Plastic, Radial				
		M12 Connector		S51-PR-5-F00-NK	952701511
				S51-PR-5-F00-PK	952701441
	Nickel Plated Brass, Axial	2m Cable	-	S51-MA-2-G00-XG	952701591
	Merci Flateu Drass, Axial	M12 Connector	-	S51-MA-5-G00-XG	952701791
	Nickel Distant Press, D. JI	2m Cable	-	S51-MR-2-G00-XG	952701701
	Nickel Plated Brass, Radial	M12 Connector	-	S51-MR-5-G00-XG	952701901
Through beam emitter		2m Cable	-	S51-PA-2-G00-XG	952701061
I hrough beam emitter					
I hrough beam emitter	Plastic, Axial	M12 Connector	_	S51-PA-5-G00-YG	957701321
Through beam emitter	Plastic, Axial	M12 Connector 2m Cable		S51-PA-5-G00-XG	952701321 952701191

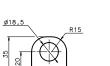
### S50/S51

### ACCESSORIES

ST-5010





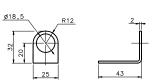


ST-5011



ø18,2

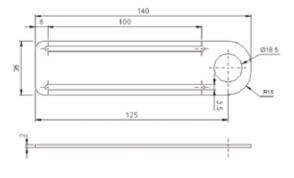






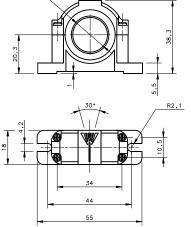
32

ST-5017

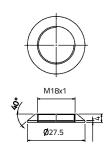




SWING-18

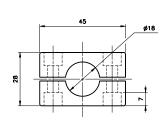


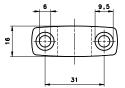
PLASTIC NUT



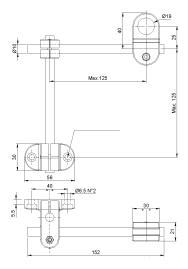
MICRO 18

SP-40





JOINT 18



5 18.5 Ô

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MODEL	DESCRIPTION	ORDER No.
ST-5010	M18/14 mounting bracket	95ACC5230
ST-5011	M18 mounting bracket short	95ACC5240
ST-5012	M18 mounting bracket long	95ACC5250
ST-5017	M18 mounting bracket	95ACC5270
S50 EASY -IN	M18/14 EASY in™ adjustable mounting support	95ACC 5300
JOINT -18	M18 jointed support	95ACC 5220
MICRO -18	support with micrometric regulation for tubular M18 sensors	95ACC 1380
ST1218	M12/M18 mounting brackets	95ACC3340
ST1830	M18/M30 mounting brackets	95ACC3350
SP-40	mounting bracket tubular	95ACC1370
SWING-18	adjustable support for M18 tubular sensors	895000006
PLASTIC NUT	flared mounting nut	95ACC2630
MEK -PROOF	front protection (only for metal models)	G500001

#### CABLES

ТҮРЕ	DESCRIPTION	LENGTH	MODEL	ORDER No.
		3 m	CS-A1-02-G-03	95A251380
	4-pole, grey, P.V.C.	5 m	CS-A1-02-G-05	95A251270
Axial M12 Connector	4-pole, grey, P.v.c.	7 m	CS-A1-02-G-07	95A251280
Axial WHZ CONNECTOR		10 m	CS-A1-02-G-10	95A251390
	4-pole, P.U.R.	2 m	CS-A1-02-R-02	95A251540
	4-pole, P.U.R.	5 m	CS-A1-02-R-05	95A251560
		3 m	CS-A2-02-G-03	95A251360
	4-pole, grey, P.V.C.	5 m	CS-A2-02-G-05	95A251240
Radial M12 Connector	4-pole, grey, P.v.c.	7 m	CS-A2-02-G-07	95A251245
Radial WIZ CONNECLOR		10 m	CS-A2-02-G-10	95A251260
	4-pole, P.U.R.	2 m	CS-A2-02-R-02	95A251550
	4-pole, P.U.R.	5 m	CS-A2-02-R-05	95A251570
Radial M12 Connector	4-pole, grey, P.V.C.	3 m	CS-A2-12-G-03	95A251400
with LED		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
Axidi IVI 12 CONNECTOR		15 m	CS-A1-02-U-15	95ASE1150
		25 m	CS-A1-02-U-25	95ASE1160
	( pole black	Connector- not cabled	CS-A1-02-B-NC	G5085002
Radial M12 Connector	4-pole, black	Connector- not cabled	CS-A2-02-B-NC	G5085003