ODATALOGIC





S₃Z

Advanced line of miniature Asian style of photoelectric sensors

- 50-250 mm background suppression
- 0.7 m proximity, 150 mm with narrow beam
- 4 m polarized retroreflective
- 15 m through beam
- Standard 3-wire output configuration



- -Processing and Packaging machinery
- -Electronics assembling
- -Transportation lines, material handling
- -Automatic warehouses
- -Cosmetics and Pharmaceutical industry
- -Small part detection with maximum accuracy





















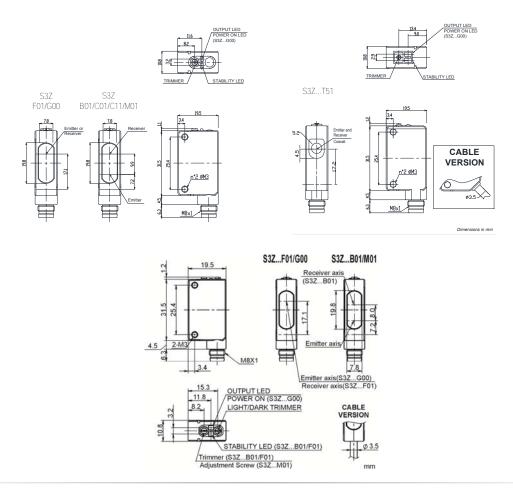


53Z			
Through beam		015 m 030 m (class 1 LASER)	
Polarized retroreflective		0.054 m 0,310 m (class 1 LASER)	
Retroreflective for transparent (on R2 reflector)		02 m	
Diffuse proximity		0700 mm 50150 mm (narrow beam)	
Background suppression		50250 mm 40300 mm (class 1 LASER)	
	Vdc	1030 V	
Power supply	Vac		
	Vac/dc		
	PNP	•	
	NPN	•	
Dutput	NPN/PNP		
	relay		
	other		
	cable	•	
Connection	connector	•	
	NPN/PNP relay other cable connector pig-tail		
Approximate dimensions (mm)		11x31x19	
Housing material		PC/PBT	
Mechanical protection		IP67	



Consumption (output current excluded)		TECHNICAL DATA			
Consumption (output current excluded) 35 mA max. (Laser mod.) Light emission red LED 655 mm (mod. 5328017C01) Light emission IR LED 850 nm (mod. 5328017(800) Setting IR LED 850 nm (mod. 5328017(800) Setting BLIGHT/DARK trimmer, 6 turns screw (mod. 532901) Operating mode LIGHT/DARK trimmer, (Laser mod.), LIGHT (mod. S32					
Light emission Light (1500) Feet Laser 650 nm (mod. 532801/F01/G00) Feet Laser 650 nm (mod. 532801/F00) Light (1500)	Consumption (output current excluded)				
Light emission red LED 670 nm (mod. 532Mo1) RI ELED 850 nm (mod. 532Mo1) (RI ELED 850 nm (mod. 532Mo1) (RI ELED 850 nm (mod. 532FO1) (FO00) (Pred Laser 650 nm (mod. 532FO1) (FO00) (Pred Laser 650 nm (mod. 532FO1) (FO00) (Pred Laser 650 nm (mod. 532FO1) (FO10) (Prod FO00) (Prod Sensitivity trimmer, 6 turns screw (mod. 532FO1) (Po10) (Prod FO00) (P		red LED 650 nm (mod. S3ZT51)			
Light emission IR LED 850 nm (mod. S3ZC11) Fred Laser 650 nm (mod. S3ZB017/G00/M01) Setting Derating mode LIGHT/DARK trimmer (Laser mod.), LIGHT (mod. S3ZPL, -NL) DARK (mod. S3ZPD, -ND) Indicators yellow OUTPUT LED, green STABILITY LED (mod. S3ZB01/C01/C11/F01), POWER ON LED (mod. S3ZG00) Output PNP or NPN (short circuit protection) Output current Saturation voltage Saturation voltage A 1 1 ms max. (LED mod.) Switching frequency Switching frequency Connection Connection Connection Dielectric strength Sould a 2 m cable Ø 35 mm, M6 4-pole connector Dielectric strength Sould a 1 portection Mechanical protection Mechanical protection Mechanical protection Ambient light rejection Sould a 1 ms (30 G) 6 shock for every axis (EN60068-2-6) Housing material Lens material Departing temperature Storage temperature Germanting Germa		red LED 665 nm (mod. S3ZB01/C01)			
RILEUBSO nm (mod. S3ZE017) RILEUBSO nm (mod. S3ZE017	Light emission				
Setting red Laser 650 nm (mod. \$32B01/F01/G00/M01) Setting Sensitivity trimmer, 6 turns screw (mod. \$32A01) Operating mode LIGHT/DARK trimmer (Laser mod.), LIGHT (mod. \$32A01, DARK (mod. \$32A01, A01) Indicators yellow OUTPUT LED, green STABILITY LED (mod. \$32B01/C01/C11/F01), POWER ON LED (mod. \$32G00) Output ON MA max. Saturation voltage 100 mA max. (LED mod.) Response time 2 V max. (Laser mod.) Switching frequency 500 Hz max. (LeED mod.) Connection 2 m cable Ø 3,5 mm, M8 4-pole connector Dielectric strength 500 Vac 1 min., between electronics and housing Insulating resistance \$20 Mp. 500 Vac, between electronics and housing Mechanical protection 1P67 Ambient light rejection 0.5 mm amplitude, 1055 Hz frequency, for every axis (EN60068-2-6) Shock resistance 11 ms (30 G) 6 shock for every axis (EN60068-2-27) Housing material Dedy PPT, indicators cover PC Lens material PMMA, PC (mod. \$32B01) Operating temperature -2555 °C (LED mod.), -2570 °C (Laser mod.) Storage temperature -4070 °C (LED mod.), -2570 °C (Laser mod.)	Light emission				
SettingSensitivity trimmer, 6 turns Screw (mod. S3ZMO1)Operating modeLIGHT/ DARK trimmer (Laser mod.), LIGHT (mod. S3ZPL, -NL), DARK (mod. S3ZPD, -ND)Indicatorsyellow OUTPUT LED, green STABILITY LED (mod. S3ZBO1/CO1/C11/FD1), POWER ON LED (mod. S3ZSO0)OutputPNP or NPN (short circuit protection)Output current100 mA max.Saturation voltage2 V max. (LED mod.)Saturation voltage1,5 V max. (LED mod.)Switching frequency500 Hz max. (LED mod.)Switching frequency500 Hz max. (LED mod.)Dielectric strength500 Vac 1 min., between electronics and housingInsulating resistance500 Was 1 min., between electronics and housingInsulating resistance500 Mz Ozo Moz 500 Vdc, between electronics and housingMechanical protection3 Caccording to EN 60947-5-2Wibration0.5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6)Shock resistance11 ms (30 G) 6 shock for every axis (EN60068-2-27)Housing material9 MMA, PC (mod. S3ZB01)Lens material9 PMMA, PC (mod. S3ZB01)Operating temperature-25 55 °C (LED mod.), -10 55 °C (Laser mod.)Storage temperature-25 55 °C (LED mod.), -25 70 °C (Laser mod.)					
Setting LIGHT/DARK trimmer (Laser mod.), LIGHT (mod. S3ZPL, -NL), Operating mode LIGHT/DARK trimmer (Laser mod.), LIGHT (mod. S3ZPL, -NL), Indicators yellow OUTPUT LED, green STABILITY LED (mod. S3Z801/C01/C11/F01), POWER ON LED (mod. S3Z600) Output PNP or NPN (short circuit protection) Output current 100 mA max. Saturation voltage 2 V max. (LED mod.) Response time 2 South (LED mod.) Switching frequency 1 ms max. (LED mod.) Connection 2 kHz max. (Laser mod.) Connection 2 ms cable Ø 35 mm, M8 4-pole connector Dielectric strength 500 Vac 1 min., between electronics and housing Insulating resistance 3 000 Vac 1 min., between electronics and housing Mechanical protection 1 P67 Ambient light rejection 3 ccording to EN 60947-5-2 Vibration 0.5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6) Shock resistance 11 ms (30 G) 6 shock for every axis (EN60068-2-27) Housing material 9 MMA, PC (mod. S3ZB01) Lens material 9 MMA, PC (mod. S3ZB01) Operating temperature 9 C(Laser mod.) <t< th=""><th>Cattle</th><th></th></t<>	Cattle				
Operating mode DARK (mod. S32PD, -ND) Indicators yellow OUTPUT LED, green STABILITY LED (mod. S32BO1/CO1/C11/F01), POWER ON LED (mod. S32GO0) Output PNP or NPN (short circuit protection) Output current 100 mA max. Saturation voltage 2 V max. (LED mod.) Response time 1 ms max. (LED mod.) Switching frequency 250 µs max. (Laser mod.) Connection 2 m cable Ø 3.5 mm, M8 4-pole connector Dielectric strength 500 Vac 1 min., between electronics and housing Insulating resistance > 20 M0 500 Vdc, between electronics and housing Mechanical protection IP67 Ambient light rejection 3 sccording to EN 60947-5-2 Vibration 0.5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6) Shock resistance 11 ms (30 G) 6 shock for every axis (EN60068-2-27) Housing material body PBT, indicators cover PC Lens material DPMMA, PC (mod. S3Z B01) Operating temperature -25 55 °C (LED mod.), -10 55 °C (Laser mod.) Storage temperature -40 70 °C (LED mod.), -25 70 °C (Laser mod.)	Setting				
Indicators yellow OUTPUT LED, green STABILITY LED (mod. S3ZB01/C01/C11/F01), POWER ON LED (mod. S3ZG00) Output PNP or NPN (short circuit protection) Output current 100 mA max. Saturation voltage 2 V max. (Laser mod.) Response time 1 ms max. (LED mod.) Switching frequency 250 µs max. (Laser mod.) Connection 2 m cable Ø 3.5 mm, M8 4-pole connector Dielectric strength 500 Wac 1 min., between electronics and housing Insulating resistance 500 Wac 1 min., between electronics and housing Mechanical protection 1 p67 Ambient light rejection 3 ccording to EN 60947-5-2 Vibration 0.5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6) Shock resistance 1 ms (30 G) 6 shock for every axis (EN60068-2-27) Housing material body PBT, indicators cover PC Lens material PMMA, PC (mod. S3ZB01) Operating temperature -25 55 °C (LED mod.), -10 55 °C (Laser mod.) Storage temperature -40 70 °C (LED mod.), -25 70 °C (Laser mod.)	Operating mode				
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Response time Switching frequency Connection Dielectric strength Insulating resistance Mechanical protection Ambient light rejection Vibration Shock resistance 11 ms (30 G) 6 shock for every axis (EN60068-2-27) Housing material Derating temperature Storage temperature Storage temperature 1, 5 V max. (Laser mod.) 1 ms max. (LED mod.) 2 m cable Ø 3,5 mm, W8 4-pole connector 2 m cable Ø 3,5 mm, W8 4-pole connector 2 m cable Ø 3,5 mm, W8 4-pole connector 3 m cable Ø 3,5 mm, W8 4-pole connector 1 ms, between electronics and housing 1 pe7 Ambient light rejection 1 pe7 3 cccording to EN 60947-5-2 Vibration 1 ms (30 G) 6 shock for every axis (EN60068-2-6) Shock resistance 1 ms (30 G) 6 shock for every axis (EN60068-2-27) Housing material 1 ms (30 G) 6 shock for every axis (EN60068-2-27) Elens material 1 ms (30 G) 6 shock for every axis (EN60068-2-27) Coperating temperature 1 ms (30 G) 6 shock for every axis (EN60068-2-27) Coperating temperature 1 ms (30 G) 6 shock for every axis (EN60068-2-27) Coperating temperature 1 ms (30 G) 6 shock for every axis (EN60068-2-27) Coperating temperature 1 ms (30 G) 6 shock for every axis (EN60068-2-27) Coperating temperature 1 ms (30 G) 6 shock for every axis (EN60068-2-27) Coperating temperature 1 ms (30 G) 6 shock for every axis (EN60068-2-27) Coperating temperature 1 ms (30 G) 6 shock for every axis (EN60068-2-27) Coperating temperature	·				
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Ambient light rejectionaccording to EN 60947-5-2Vibration0.5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6)Shock resistance11 ms (30 G) 6 shock for every axis (EN60068-2-27)Housing materialbody PBT, indicators cover PCLens materialPMMA, PC (mod. S3ZB01)Operating temperature-25 55 °C (LED mod.), -10 55 °C (Laser mod.)Storage temperature-40 70 °C (LED mod.), -25 70 °C (Laser mod.)	· ·				
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Housing materialbody PBT, indicators cover PCLens materialPMMA, PC (mod. S3ZB01)Operating temperature-25 55 °C (LED mod.), -10 55 °C (Laser mod.)Storage temperature-40 70 °C (LED mod.), -25 70 °C (Laser mod.)	1.2.2.0.	0.5 mm amplitude, 10 55 Hz frequency, for every axis (EN60068-2-6)			
Lens material PMMA, PC (mod. S3ZB01) Operating temperature -25 55 °C (LED mod.), -10 55 °C (Laser mod.) Storage temperature -40 70 °C (LED mod.), -25 70 °C (Laser mod.)					
Operating temperature -25 55 °C (LED mod.), -10 55 °C (Laser mod.) Storage temperature -40 70 °C (LED mod.), -25 70 °C (Laser mod.)	<u> </u>	body PBT, indicators cover PC			
Storage temperature -40 70 °C (LED mod.), -25 70 °C (Laser mod.)	Lens material				
	Operating temperature				
Weight 50 g max. cable vers. , 10 g max. conn. vers.	Storage temperature	-40 70 °C (LED mod.), -25 70 °C (Laser mod.)			
	Weight	50 g max. cable vers. , 10 g max. conn. vers.			

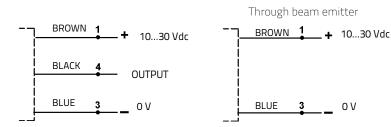
DIMENSIONS



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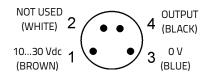
CONNECTIONS

CABLE



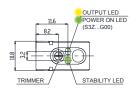
M8 CONNECTOR

0 V

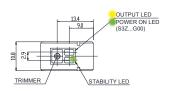


INDICATORS AND SETTINGS

S3Z...F01/G00/B01/C01/M01



S3Z...T51

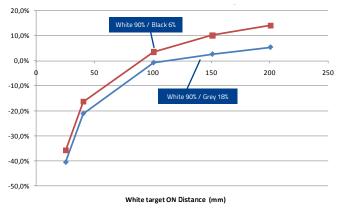


S3Z...F01/G00/B01/M01

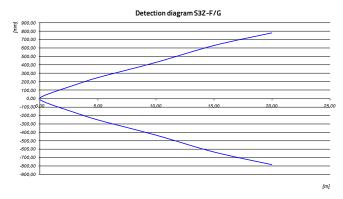


DIAGRAM LED MODELS

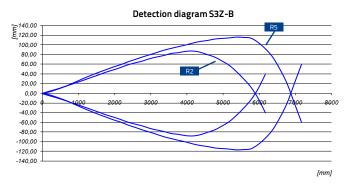
BACKGROUND SUPPRESSION - DISTANCE DIFFERENCE VS REFLECTANCE TARGET



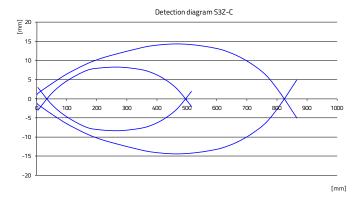
THROUGH BEAM - DETECTION AREA



POLARIZED RETROREFLECTIVE - DETECTION AREA

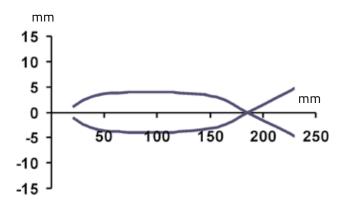


DIFFUSE PROXIMITY - DETECTION AREA

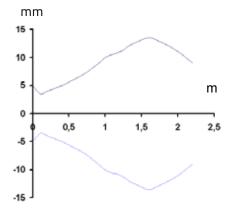


ODATALOGIC

NARROW BEAM PROXIMITY - DETECTION AREA

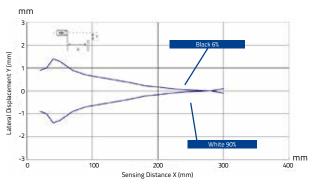


POLARIZED RETROREFLECTIVE FOR TRANSPARENT - DETECTION AREA

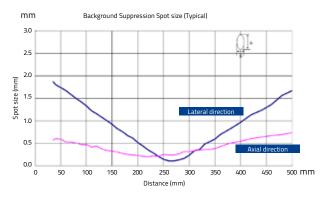


DIAGRAMS LASER MODELS

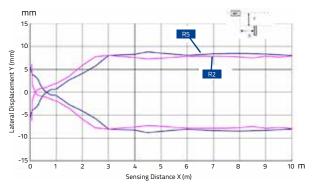
BACKGROUND SUPPRESSION - DETECTION AREA



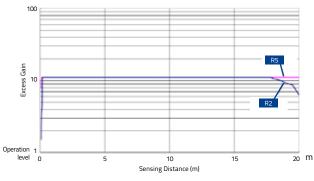
BACKGROUND SUPPRESSION - SPOT DIMENSION



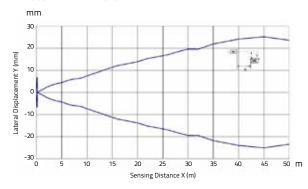
POLARIZED RETROREFLECTIVE - DETECTION AREA



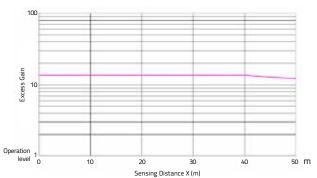
POLARIZED RETROREFLECTIVE - EXCESS GAIN



THROUGH BEAM - DETECTION AREA



THROUGH BEAM - EXCESS GAIN



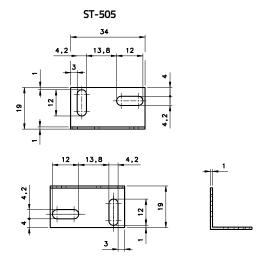


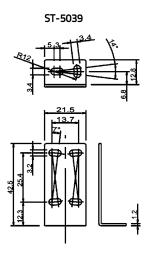
MODEL SELECTION AND ORDER INFORMATION

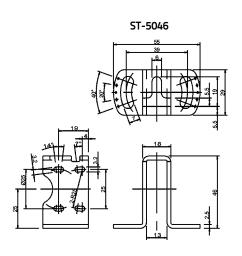
OPTIC FUNCTION	EMISSION	CONNECTION	OUTPUT	MODEL	ORDER No.
		2 m Cable	PNP - LIGHT	S3Z-PR-2-C01-PL	95B010040
		M8 Connector	PNP - LIGHT	S3Z-PR-5-C01-PL	95B010050
		2 m Cable	PNP - DARK	S3Z-PR-2-C01-PD	95B010060
		M8 Connector	PNP - DARK	S3Z-PR-5-C01-PD	95B010070
Narrow beam diffuse proximity	LED	2 m Cable	NPN - LIGHT	S3Z-PR-2-C01-NL	95B010200
		M8 Connector	NPN - LIGHT	S3Z-PR-5-C01-NL	95B010210
		2 m Cable	NPN - DARK	S3Z-PR-2-C01-ND	95B010220
		M8 Connector	NPN - DARK	S3Z-PR-5-C01-ND	95B010230
		2 m Cable	PNP - LIGHT	S3Z-PR-2-C11-PL	95B010001
		M8 Connector	PNP - LIGHT	S3Z-PR-5-C11-PL	95B010011
		2 m Cable	PNP - DARK	S3Z-PR-2-C11-PD	95B010021
		M8 Connector	PNP - DARK	S3Z-PR-5-C11-PD	95B010031
Long diffuse proximity	LED	2 m Cable	NPN - LIGHT	S3Z-PR-2-C11-NL	95B010161
		M8 Connector	NPN - LIGHT	S3Z-PR-5-C11-NL	95B010171
		2 m Cable	NPN - DARK	S3Z-PR-2-C11-ND	95B010181
		M8 Connector	NPN - DARK	S3Z-PR-5-C11-ND	95B010191
		2 m Cable	PNP - LIGHT	S3Z-PR-2-B01-PL	95B010081
		M8 Connector	PNP - LIGHT	S3Z-PR-5-B01-PL	95B010091
		2 m Cable	PNP - DARK	S3Z-PR-2-B01-PD	95B010101
		M8 Connector	PNP - DARK	S3Z-PR-5-B01-PD	95B010111
	LED	2 m Cable	NPN - LIGHT	S3Z-PR-2-B01-NL	95B010241
		M8 Connector	NPN - LIGHT	S3Z-PR-5-B01-NL	95B010251
Polarized retroreflective		2 m Cable	NPN - DARK	S3Z-PR-2-B01-ND	95B010261
		M8 Connector	NPN - DARK	S3Z-PR-5-B01-ND	95B010271
		2 m Cable	PNP - DARK/LIGHT	S3Z-PH-2-B01-P	95B010440
		M8 Connector	PNP - DARK/LIGHT	S3Z-PH-5-B01-P	95B010460
	LASER	2 m Cable	NPN - DARK/LIGHT	S3Z-PH-2-B01-N	95B010450
		M8 Connector	NPN - DARK/LIGHT	S3Z-PH-5-B01-N	95B010470
		2 m Cable	PNP - LIGHT	S3Z-PR-2-FG01-PL	95B010121
		M8 Connector	PNP - LIGHT	S3Z-PR-5-FG01-PL	95B010131
		2 m Cable	PNP - DARK	S3Z-PR-2-FG01-PD	95B010141
		M8 Connector	PNP - DARK	S3Z-PR-5-FG01-PD	95B010151
	LED	2 m Cable	NPN - LIGHT	S3Z-PR-2-FG01-NL	95B010281
		M8 Connector	NPN - LIGHT	S3Z-PR-5-FG01-NL	95B010291
Through beam		2 m Cable	NPN - DARK	S3Z-PR-2-FG01-ND	95B010301
		M8 Connector	NPN - DARK	S3Z-PR-5-FG01-ND	95B010311
	LASER	2 m Cable	PNP - DARK/LIGHT	S3Z-PH-2-FG01-P	95B010520
		M8 Connector	PNP - DARK/LIGHT	S3Z-PH-5-FG01-P	95B010540
		2 m Cable	NPN - DARK/LIGHT	S3Z-PH-2-FG01-N	95B010530
		M8 Connector	NPN - DARK/LIGHT	S3Z-PH-5-FG01-N	95B010550
		2 m Cable	PNP - LIGHT	S3Z-PR-2-M01-PL	95B010331
	LED	M8 Connector	PNP - LIGHT	S3Z-PR-5-M01-PL	95B010351
Background suPression		2 m Cable	NPN - LIGHT	S3Z-PR-2-M01-NL	95B010321
		M8 Connector	NPN - LIGHT	S3Z-PR-5-M01-NL	95B010341
	LASER	2 m Cable	PNP - DARK/LIGHT	S3Z-PH-2-M01-P	95B010480
		M8 Connector	PNP - DARK/LIGHT	S3Z-PH-5-M01-P	95B010500
		2 m Cable	NPN - DARK/LIGHT	S3Z-PH-2-M01-N	95B010490
		M8 Connector	NPN - DARK/LIGHT	S3Z-PH-5-M01-N	95B010510
		2 m Cable	NPN - DARK	S3Z-PR-2-T51-ND	95B010390
Polarized retroreflective	LED	2 m Cable	PNP - DARK	S3Z-PR-2-T51-PD	95B010380
for transparent		M8 Connector	NPN - DARK	S3Z-PR-5-T51-ND	95B010370
		M8 Connector	PNP - DARK	S3Z-PR-5-T51-PD	95B010360

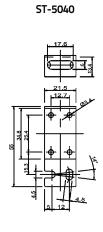
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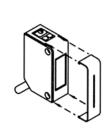
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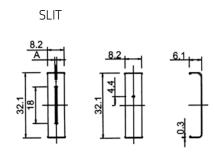
















MODEL	DESCRIPTION	ORDER NO.
ST-505	lateral mounting	95ACC2800
ST-5039	L-shaped fixing bracket	95ACC2270
ST-5040	protection bracket with vertical fixing (only for cable versions)	95ACC2280
ST-5046	protection bracket with horizontal fixing	95ACC2370
S3Z-SLIT1	Ø 0,5 mm slit for through beam	95ACC2470
S3Z-SLIT2	Ø 1 mm slit for through beam	95ACC2480
S3Z-SLIT3	Ø 2 mm slit for through beam	95ACC2490
S3Z-SLIT4	0,5x18 mm slit for through beam	95ACC2500
S3Z-SLIT5	1x18 mm slit for through beam	95ACC2510
S3Z-SLIT6	2x18 mm slit for through beam	95ACC2520
ST-S3Z-M18	S3Z FIX BRK M18 THREADED NOSE	95ACC7850

CABLES

TYPE	DESCRIPTION	LENGTH	MODEL	ORDER No.
Axial M8 Connector	4-pole, grey, P.V.C.	3 m	CS-B1-02-G-03	95A251420
		5 m	CS-B1-02-G-05	95A251430
		7 m	CS-B1-02-G-07	95A251440
		10 m	CS-B1-02-G-10	95A251480
	4-pole, P.U.R.	2 m	CS-B1-02-R-02	95A251620
		5 m	CS-B1-02-R-05	95A251640
	4-pole, grey, P.V.C.	3 m	CS-B2-02-G-03	95A251450
		5 m	CS-B2-02-G-05	95A251460
Radial M8 Connector		7 m	CS-B2-02-G-07	95A251470
		10 m	CS-B2-02-G-10	95A251530
	4-pole, P.U.R.	2 m	CS-B2-02-R-02	95A251630
		5 m	CS-B2-02-R-05	95A251650



