

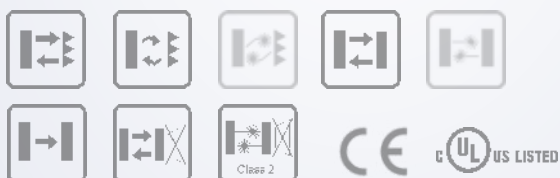
S62**DATALOGIC**

THE MOST COMPLETE UNIVERSAL SENSOR IN A COMPACT 50X50 MM HOUSING

- Sensors with red, infrared LED or LASER emission
- Background suppression from 3 cm to 2 m
- Polarized retroreflective up to 20 m
- Multivoltage 24-240Vac/24-60Vdc with Relay output
- NPN/PNP output NO-NC configuration

APPLICATIONS

- Processing and Packaging machinery
- Conveyor lines, material handling



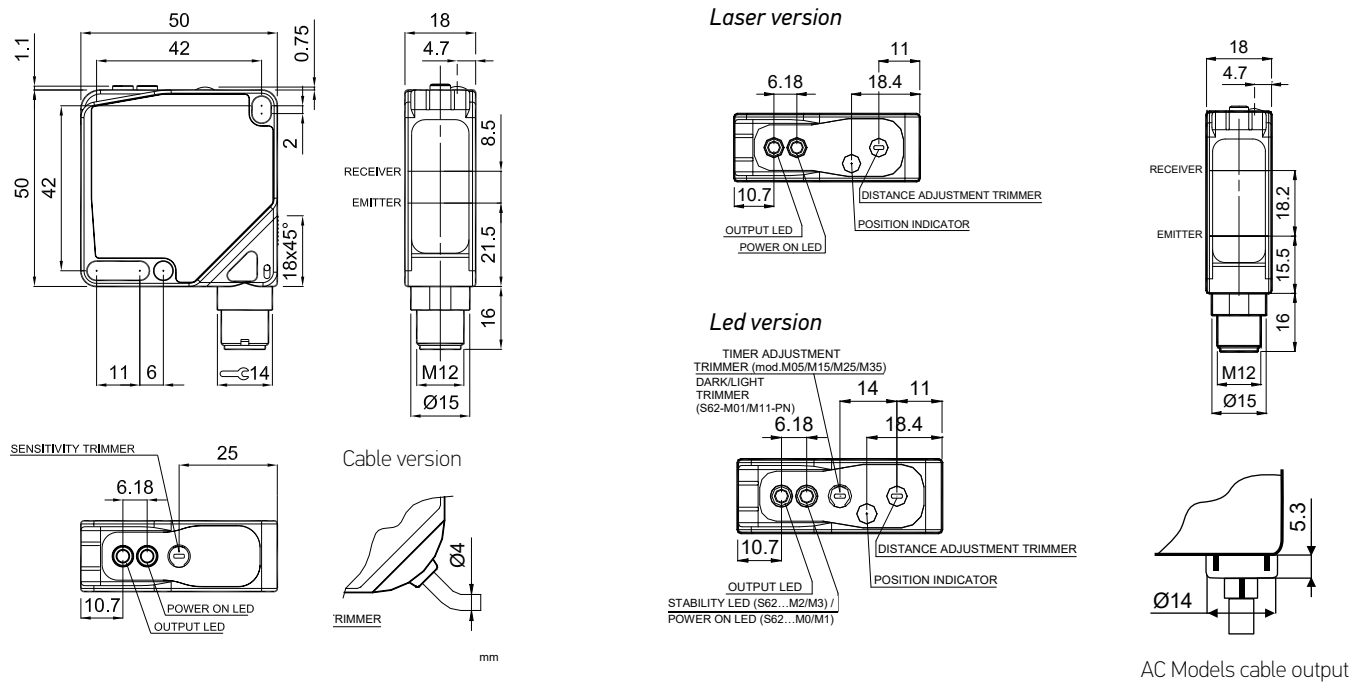
S62		
Through beam		0...25 m
Retroreflective (on R2 reflector)		0,1...13 m
Polarized retroreflective		0,1...8 m
Diffuse proximity		0,3...20 m (class 2 LASER)
Background suppression		short 0...900 mm, long 0...2000 mm
		0...900 mm (class 2 LASER)
		short 30...300 mm
		medium 60...600 mm
		long 60...1200 mm
		very long 200...2000 mm
		short LASER 30...150 mm (class 2 LASER)
		long LASER 50...350 mm (class 2 LASER)
Power supply	Vdc	10...30 V
	Vac	
	Vac/dc	24/240 Vac/24...60 Vdc
Output	PNP	•
	NPN	•
	NPN/PNP	•
	relay	•
	other	
Connection	cable	•
	connector	•
	pig-tail	
Approximate dimensions (mm)		18x50x50
Housing material		ABS
Mechanical protection		IP67

TECHNICAL DATA

Power supply	10 ... 30 Vdc (mod. S62...2/5) 24...240 Vac/ 24...60 Vdc (mod. S62...1)
Ripple	2 Vpp max. (mod. S62...2/5), 10% max. (mod. S62...1)
Consumption (output current excluded)	30 mA max. (mod. S62...2/5) 3 VA max. (mod. S62...1)
Light emission	red LED 640 nm (mod. S62-PA...A/B/C/G/M01/M05/M11/M15) IR LED 880 nm (mod. S62-PA...M21/M25/M31/M35) red Laser 645...665 nm (mod. S62-PL)
Setting	sensitivity adjustment trimmer
Operating mode	mono-turn LIGHT/DARK trimmer (mod. S62...RX/PN)
Indicators	yellow OUTPUT LED green STABILITY LED, POWER LED (S62...G)
Output	PNP or NPN N.O./N.C. (mod. S62...PP/NN); NPN/PNP (mod. S62...PN); electromechanical SPDT 250 Vac/30 Vdc (mod. S62...RX)
Output current	100 mA max. (mod. S62...2/5), 2 A max. (mod. S62...1)
Saturation voltage	2 V max. (mod. S62...2/5)
Response time	25 ms (mod. S62...1) 1,5 ms (mod. S62...M3x) 1 ms (mod. S62...2/5-F/G/M2x) 500 µs (mod. S62-PA...2/5-A/B/C/M0x/M1x) 200 µs (mod. S62-PL...B/C/M11) 140 µs (mod. S62-PL...M01)
Switching frequency	20 Hz (mod. S62...1) 330 Hz (mod. S62...M3x) 500 Hz (mod. S62...2/5-F/G/M2x) 1 kHz (mod. S62-PA...2/5-A/B/C/M0x/M1x) 2,5 kHz (mod. S62-PL...B/C/M11) 3,5 kHz (mod. S62-PL...M01)
Connection	M12 4-pole connector, 2 m Ø 4 mm cable vers., 2 m Ø 5 mm cable vers.
Dielectric strength	500 Vac 1 min., between electronics and housing
Insulation resistance	>20 MΩ 500 Vdc, between electronics and housing
Mechanical protection	IP67
Ambient light rejection	According to EN 60947-5-2
Vibrations	0.5 mm amplitude, 10 ... 55 Hz frequency, for each axis (EN60068-2-6)
Shock resistance	11ms (30G) 6 shock for every axis (EN60068-2-27)
Housing material	ABS
Lens material	PMMA window, polycarbonate lens
Operating temperature	-10 ... 55 °C
Storage temperature	-20 ... 70 °C
Weight	40 g max. conn. vers., 90 max. cable vers.

DIMENSIONS

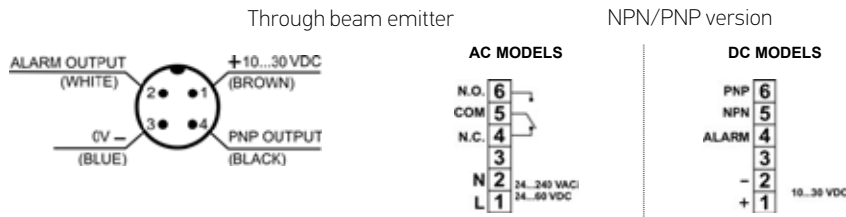
Background suppression



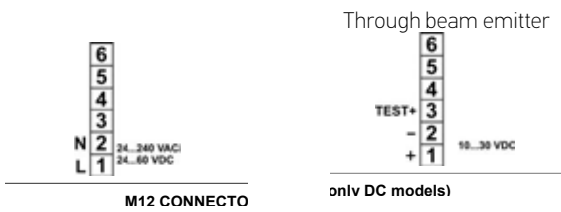
AC Models cable output

CONNECTIONS

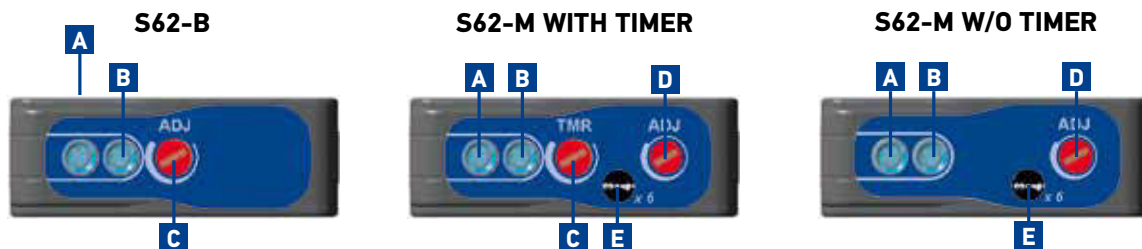
VDC MODELS



VAC MODELS

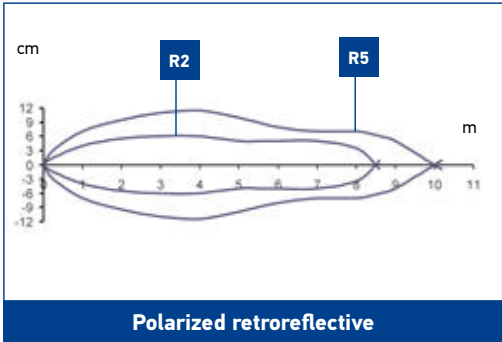
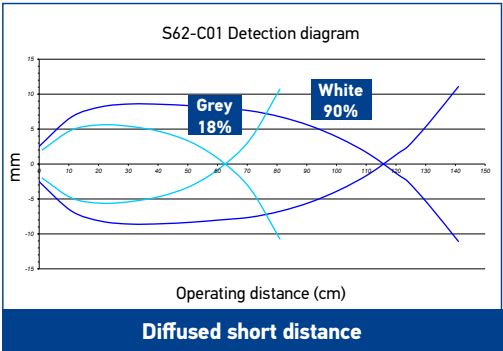
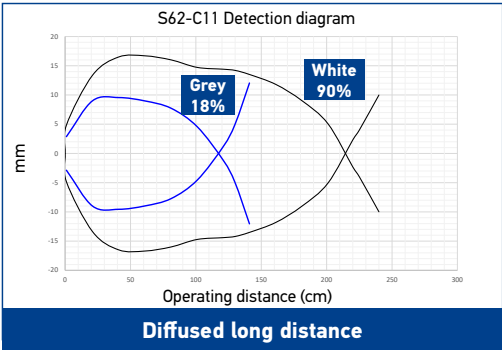


INDICATORS AND SETTINGS



- A** Output status LED
- B** Stability LED or Power ON LED (laser vers.)
- C** Timer adjustment trimmer
- D** Distance adjustment trimmer
- E** Geared numeric scale
- F** M12 connector output
- G** Cable output

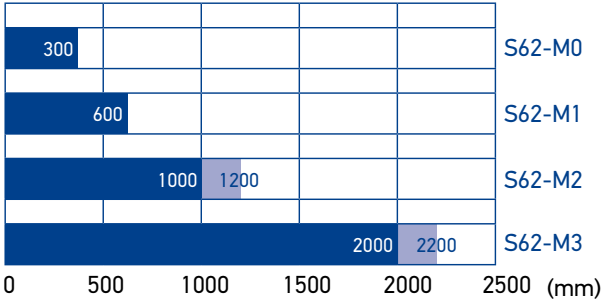
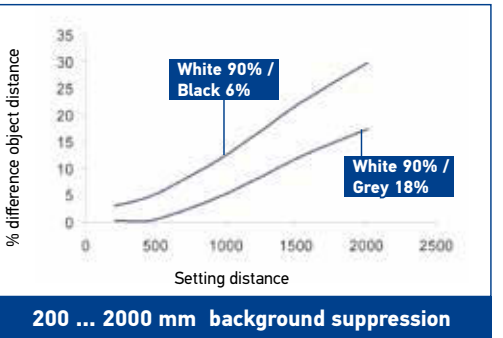
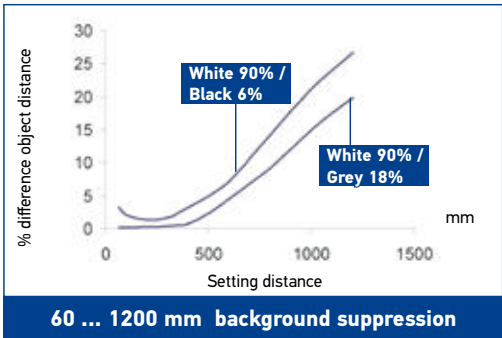
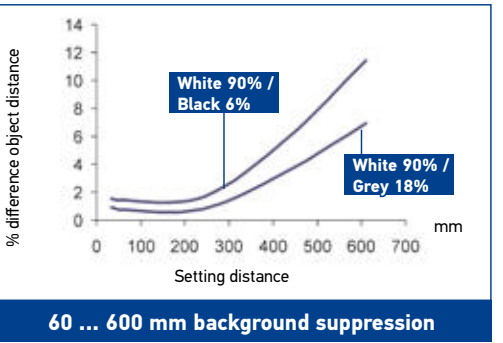
DETECTION DIAGRAMS OF MODELS WITH LED EMISSION



0 2 4 6 8 10 (m)

Recommended operating distance

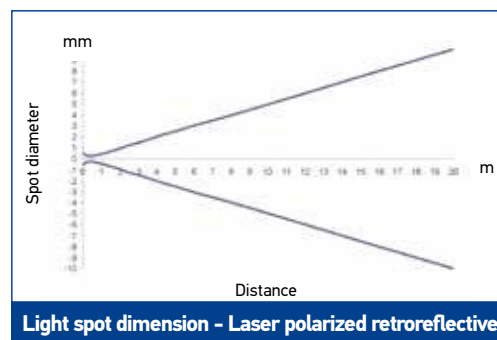
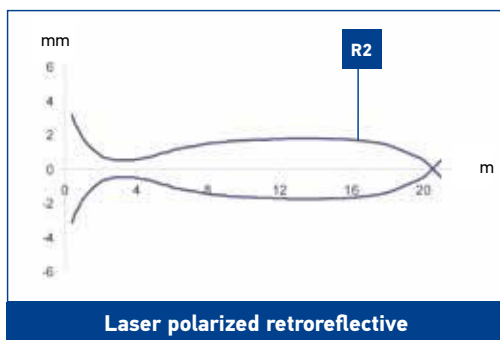
Maximum operating distance



Recommended operating distance

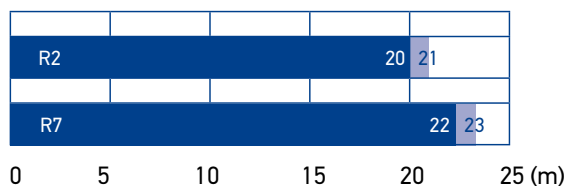
Maximum operating distance

DETECTION DIAGRAMS OF MODELS WITH LASER EMISSION



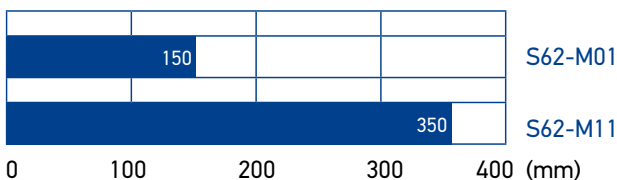
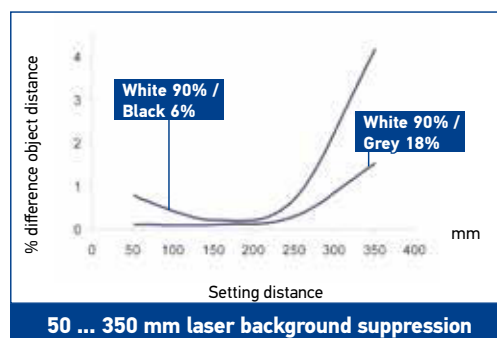
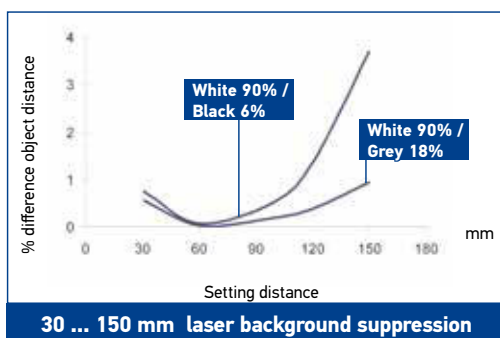
Reflector operating distances (m)				
R1	R2	R6	R7 / R20	R8
0.3 ... 16	0.3 ... 20	0.4 ... 22	0.3 ... 22	0.2 ... 2

The use of the RT3970 reflecting tape is suggested.



Recommended operating distance

Maximum operating distance

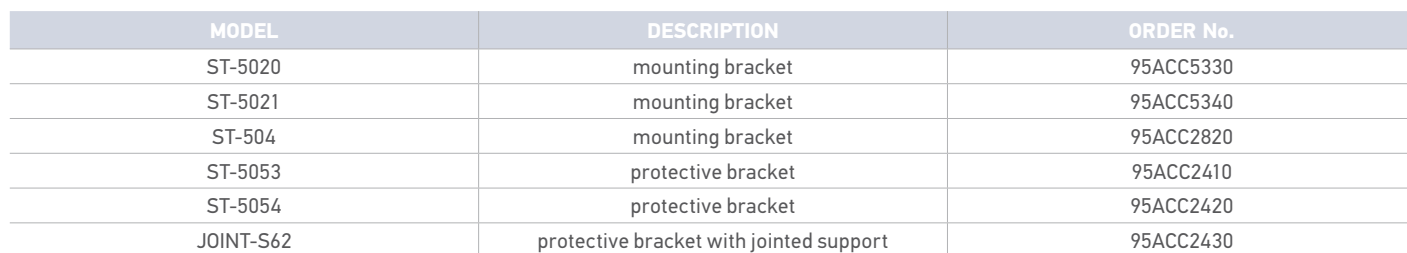


Recommended operating distance

Maximum operating distance

MODEL SELECTION AND ORDER INFORMATION

OPTIC FUNCTION	EMISSION	CONNECTION	SETTING	OUTPUT	MODEL	ORDER No.		
Retroreflective	LED (red 640nm)	2m Cable	sensitivity trimmer (mono turn)	PNP/NPN	S62-PA-2-A01-PN	956211240		
		M12 Connector		PNP/NPN	S62-PA-5-A01-PN	956211310		
		Vac relay	mono-turn light/dark trimmer	Relay	S62-PA-1-A01-RX	956211180		
Polarized retroreflective	LED (red 640nm)	2m Cable	sensitivity trimmer (mono-turn)	PNP/NPN	S62-PA-2-B01-PN	956211250		
		M12 Connector		PNP	S62-PA-2-B01-PP	956211010		
				NPN	S62-PA-5-B01-NN	956211020		
				PNP/NPN	S62-PA-5-B01-PN	956211320		
		PNP	S62-PA-5-B01-PP	956211000				
	Vac relay	mono-turn light/dark trimmer	Relay	S62-PA-1-B01-RX	956211190			
	LASER	M12 Connector	mono-turn light/dark trimmer	NPN	S62-PL-5-B01-NN	956211100		
PNP				S62-PL-5-B01-PP	956211110			
Short diffused proximity	LED (red 640nm)	2m Cable	sensitivity trimmer (mono-turn)	NPN	S62-PA-2-C01-NN	956211420		
		M12 Connector		PNP/NPN	S62-PA-2-C01-PN	956211260		
				PNP	S62-PA-2-C01-PP	956211380		
				NPN	S62-PA-5-C01-NN	956211500		
				PNP/NPN	S62-PA-5-C01-PN	956211330		
	PNP	S62-PA-5-C01-PP	956211460					
	Vac relay	mono-turn light/dark trimmer	Relay	S62-PA-1-C01-RX	956211200			
	LASER	2m Cable	sensitivity trimmer (mono-turn)	NPN	S62-PL-2-C01-NN	956211440		
		M12 Connector		PNP	S62-PL-2-C01-PP	956211400		
				NPN	S62-PL-5-C01-NN	956211520		
PNP				S62-PL-5-C01-PP	956211480			
NPN				S62-PA-2-C11-NN	956211430			
Long diffused proximity	LED (red 640nm)	2m Cable	sensitivity trimmer (mono turn)	PNP/NPN	S62-PA-2-C11-PN	956211270		
		M12 Connector		PNP	S62-PA-2-C11-PP	956211390		
				NPN	S62-PA-5-C11-NN	956211510		
				PNP/NPN	S62-PA-5-C11-PN	956211340		
				PNP	S62-PA-5-C11-PP	956211470		
	Vac relay	mono-turn light/dark trimmer	Relay	S62-PA-1-C11-RX	956211210			
	-	2m Cable	sensitivity trimmer (mono turn)	NPN	S62-PA-2-F01-NN	956211450		
		M12 Connector		PNP/NPN	S62-PA-2-F01-PN	956211290		
PNP				S62-PA-2-F01-PP	956211410			
NPN				S62-PA-5-F01-NN	956211530			
PNP/NPN				S62-PA-5-F01-PN	956211360			
PNP	S62-PA-5-F01-PP	956211490						
Through beam receiver	-	Vac relay	mono-turn light/dark trimmer	Relay	S62-PA-1-F01-RX	956211220		
		2m Cable	sensitivity trimmer (mono turn)	NPN	S62-PA-2-G00-XG	956211300		
		M12 Connector		-	S62-PA-5-G00-XG	956211370		
				-	S62-PA-1-G00-XX	956211230		
Through beam emitter	LED (red 640nm)			2m Cable	sensitivity trimmer (mono turn)	PNP/NPN	S62-PA-2-M01-PN	956211280
		M12 Connector	PNP	S62-PA-2-M01-PP		956201841		
			NPN	S62-PA-5-M01-NN		956201811		
			PNP/NPN	S62-PA-5-M01-PN		956211350		
			PNP	S62-PA-5-M01-PP		956201831		
	Background suppression (short distance)	LED (red 640nm)	M12 Connector	6 turns distance adjustment trimmer	NPN	S62-PA-5-M05-NN	956201801	
					PNP	S62-PA-5-M05-PP	956201821	
					NPN	S62-PL-5-M01-NN	956211120	
					PNP	S62-PL-5-M01-PP	956211130	
					PNP	S62-PA-2-M11-PP	956201891	
Background suppression (medium distance)	LED (red 640nm)	2m Cable	6 turns distance adjustment trimmer	NPN	S62-PA-5-M11-NN	956201861		
		M12 Connector		PNP	S62-PA-5-M11-PP	956201881		
				NPN	S62-PA-5-M15-NN	956201851		
	LASER	M12 Connector	6 turns distance adjustment trimmer	PNP	S62-PA-5-M15-PP	956201871		
				NPN	S62-PL-5-M11-NN	956211140		
				PNP	S62-PL-5-M11-PP	956211150		
Background suppression (long distance)	LED (infrared 880nm)	2m Cable	6 turns distance adjustment trimmer	PNP	S62-PA-2-M21-PP	956201940		
		M12 Connector		NPN	S62-PA-5-M21-NN	956201910		
				PNP	S62-PA-5-M21-PP	956201900		
		Background suppression (very long distance)	LED (infrared 880nm)	M12 Connector	timer adjustment trimmer	NPN	S62-PA-5-M25-NN	956201930
						PNP	S62-PA-5-M25-PP	956201920
2m Cable	6 turns distance adjustment trimmer					PNP	S62-PA-2-M31-PP	956211050
M12 Connector						NPN	S62-PA-5-M31-NN	956211060
	M12 Connector	timer adjustment trimmer	PNP	S62-PA-5-M31-PP	956211070			
NPN			S62-PA-5-M35-NN	956211080				
				PNP	S62-PA-5-M35-PP	956211090		



CABLES

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