

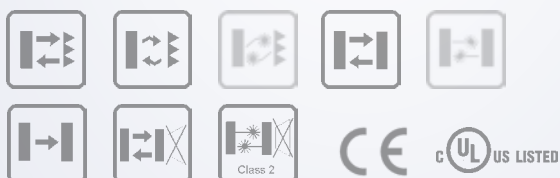
S62**DATALOGIC**

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



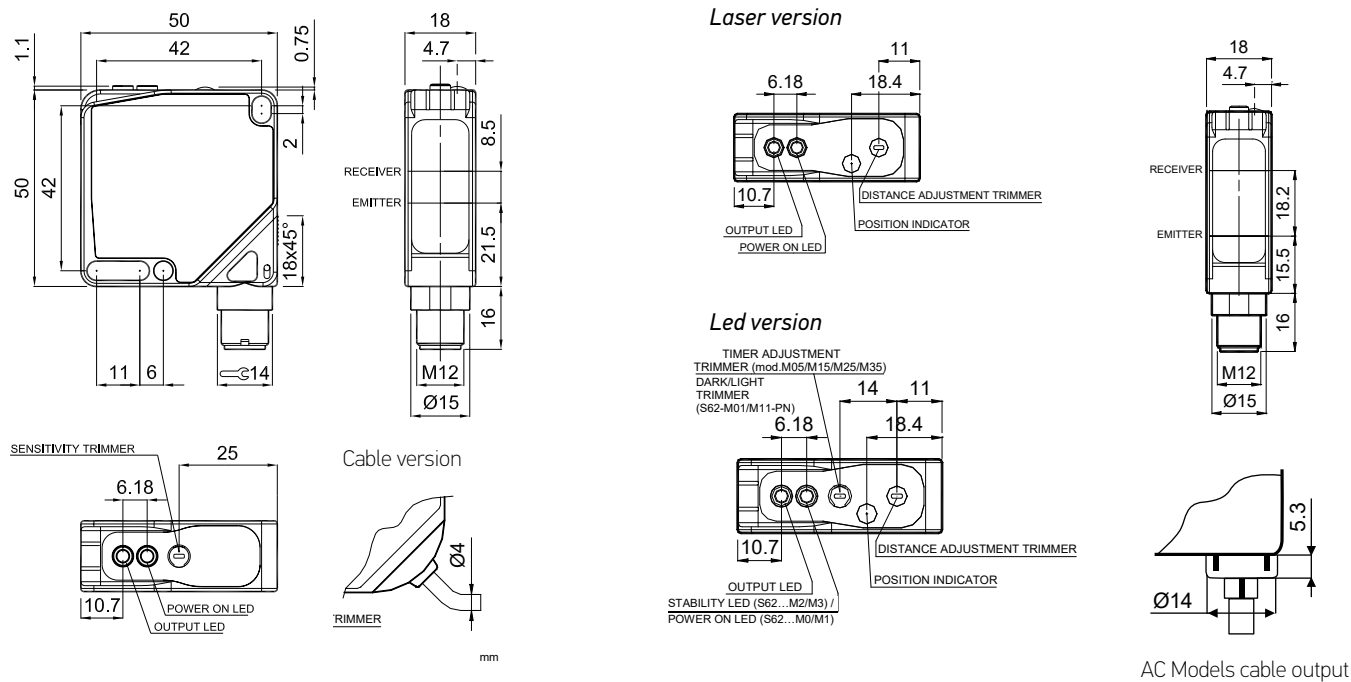
S62		
Through beam		0...25 m
Retroreflective (on R2 reflector)		0,1...13 m
Polarized retroreflective		0,1...8 m
Diffuse proximity		0,3...20 m (class 2 LASER)
Background suppression		short 0...900 mm, long 0...2000 mm
		0...900 mm (class 2 LASER)
		short 30...300 mm
		medium 60...600 mm
		long 60...1200 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

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	
Short diffused proximity	LED (red 640nm)	2m Cable	sensitivity trimmer (mono-turn)	PNP	S62-PA-2-C01-PN	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	
	Vac relay	mono-turn light/dark trimmer	PNP	S62-PA-5-C01-PP	956211460		
	LASER	2m Cable	sensitivity trimmer (mono-turn)	Relay	S62-PA-1-C01-RX	956211200	
		M12 Connector		NPN	S62-PL-2-C01-NN	956211440	
				PNP	S62-PA-5-C01-PP	956211400	
				NPN	S62-PL-5-C01-NN	956211520	
				PNP	S62-PL-5-C01-PP	956211480	
	Long diffused proximity	LED (red 640nm)	2m Cable	sensitivity trimmer (mono turn)	NPN	S62-PA-2-C11-NN	956211430
			M12 Connector		PNP/NPN	S62-PA-2-C11-PN	956211270
PNP					S62-PA-2-C11-PP	956211390	
NPN					S62-PA-5-C11-NN	956211510	
PNP/NPN					S62-PA-5-C11-PN	956211340	
Vac relay		mono-turn light/dark trimmer	PNP	S62-PA-5-C11-PP	956211470		
Through beam receiver		-	2m Cable	sensitivity trimmer (mono turn)	Relay	S62-PA-1-C11-RX	956211210
			M12 Connector		NPN	S62-PA-2-F01-NN	956211450
	PNP/NPN				S62-PA-2-F01-PN	956211290	
	PNP				S62-PA-2-F01-PP	956211410	
	NPN				S62-PA-5-F01-NN	956211530	
Vac relay	mono-turn light/dark trimmer	PNP/NPN	S62-PA-5-F01-PN	956211360			
Through beam emitter	LED (red 640nm)	2m Cable	sensitivity trimmer (mono turn)	-	PNP	S62-PA-5-F01-PP	956211490
		M12 Connector			Relay	S62-PA-1-F01-RX	956211220
					2m Cable	6 turns distance adjustment trimmer	PNP/NPN
		M12 Connector	S62-PA-5-G00-XG	956211370			
			S62-PA-1-G00-XX	956211230			
			PNP/NPN	S62-PA-2-M01-PN	956211280		
			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)	LASER	M12 Connector	4 turns distance adjustment trimmer	NPN	S62-PA-5-M05-NN	956201801	
			timer adjustment trimmer	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		
			NPN	S62-PA-5-M11-NN	956201861		
			PNP	S62-PA-5-M11-PP	956201881		
			NPN	S62-PA-5-M15-NN	956201851		
			PNP	S62-PA-5-M15-PP	956201871		
			NPN	S62-PL-5-M11-NN	956211140		
PNP	S62-PL-5-M11-PP	956211150					
Background suppression (medium distance)	LED (red 640nm)	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	
			timer adjustment trimmer	NPN	S62-PA-5-M25-NN	956201930	
			PNP	S62-PA-5-M25-PP	956201920		
Background suppression (long distance)	LED (infrared 880nm)	2m Cable	6 turns distance adjustment trimmer	PNP	S62-PA-2-M31-PP	956211050	
		M12 Connector		NPN	S62-PA-5-M31-NN	956211060	
				PNP	S62-PA-5-M31-PP	956211070	
		Background suppression (very long distance)		timer adjustment trimmer	NPN	S62-PA-5-M35-NN	956211080
				PNP	S62-PA-5-M35-PP	956211090	