

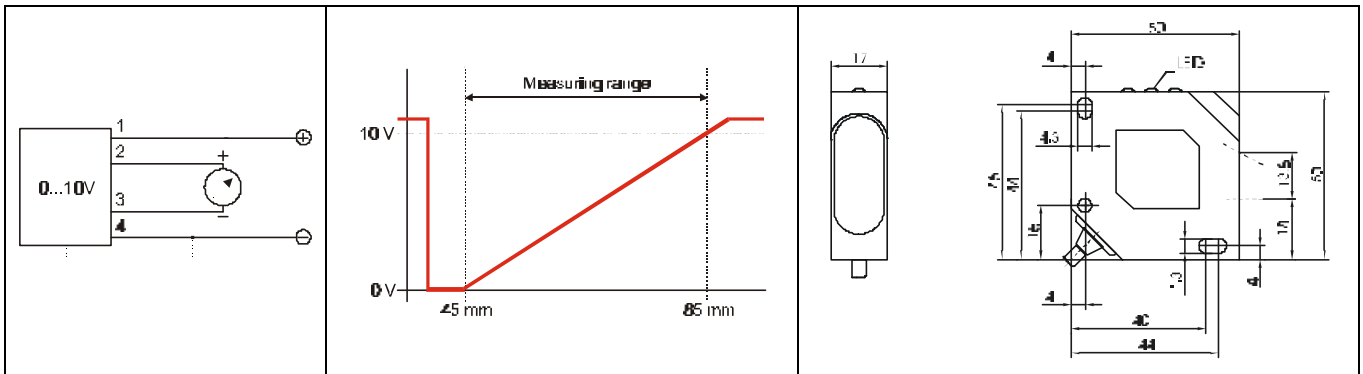
Laser Proximity Transmitter SPLA

- ◆ Laser red light 670 nm
- ◆ Laser safety class 2
- ◆ High efficiency
- ◆ 0.04 mm resolution
- ◆ 40 mm sensing range
- ◆ 0 to 10 V output signal



The SPLA proximity laser sensor, distributed by COMECO and manufactured by SENSOPART, is intended for all production sequences where not a digital signal, but an **ANALOG OUTPUT** proportional to the measured distance is required. The visible laser beam meets the object, the reflected light is pictured on the receiver by a lens system, and the distance-proportional currents are processed into an analog output signal. Objects are detected independently of their surface or material. High precision and a very good cost-performance ratio are remarkable features of the SPLA sensor. Visible red light and a very small light spot give new application opportunities, which are not possible with LED light-barriers. The laser sensor corresponds to the laser safety class 2. There are no safety precautions necessary.

SP



Technical specifications

Power supply		Indication and adjusting	
Supply voltage	18...28 VDC	Operation indication	Green LED
Consumption (no load)	< 35 mA	Contamination indication	Red LED
Input		Laser data	
Input signal	distance	Laser protection class	2
Working range	45...85 mm	Radiation divergence	θ=0.5 mrad
Measuring range	40 mm	Pulse output power	< 3.5 mW
Maximum sensing distance	65 ± 1 mm	Wave length	670 nm
Resolution	40 µm (50Hz) or 80 µm (500Hz)	Pulse width and frequency	6 µs at 14 kHz
Light spot	< 0.8 mm at 65 mm distance	Time base	250 ms
Output		Operating conditions	
Output signal	0 to 10 VDC	Operating temperature	0 to 45 °C
Max. output current	3 mA	Storage temperature	-20 to 60 °C
Reaction time (10% to 90%)	1 ms	Design and materials	
Switching frequency	50 or 500 Hz	Casing material	ABS, shock-resistant
Temperature drift	0.045 % of span for 1 °C	Wiring	6m cable
Short circuit protection	Yes	Maximum cable length	100 m
Polarity reverse protection	Yes	Protection class	IP-67
		Weight	app. 280 g

Ordering code



SPLA - G2

Code	Feature or option	Code values
G2	Resolution	N - normal (80 µm at 500 Hz) , I - increased (40 µm at 50 Hz)