

# **Color Proximity Sensor SPLC**

- The smallest sensor using white light
- 3 color-sense switching outputs (RGB)
- 12...32 mm scanning distance
- 50x50x17 housing size
- teach-in function

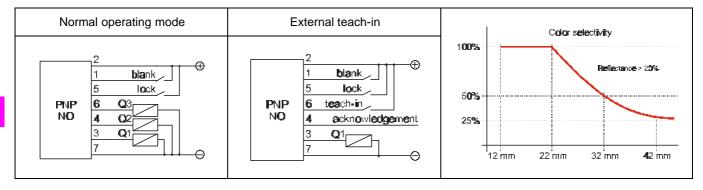
♦ 270 ° rotate connector

The **SPLC** proximity sensor, distributed by COMECO and manufactured by SENSOPART, is a sensor for detection of colors. Unlike expensive color measurement devices, the SPLC sensor compares a color with a reference color taught-in beforehand. Up to 3 different colors can be assigned to three output channels. Color sensors are used in many fields of automation.

Some typical application fields can be packaging machinery, food industry, pharmaceutical and cosmetic industry, beverage industry and other automation systems.

The SPLC sensor is one if the first color sensors using the white light LED technology, which enables a small sized and light device with a favorable price.





### **Technical specifications**

#### Sensing Input

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Measuring Input signal	Color-sensing distance			
Scanning range	1232 mm			
Scanning distance tolerance	± 6 mm			
Color selectivity tolerance	adjustable in 5 steps			
Used light	white, pulsed			
Light spot	4 mm at 22 mm distance			
Control Inputs & Outputs				
Operating mode	normal	external		
Color control outputs	3 (Q1, Q2, Q3)	1 teach-in (Q1)		
Output type	PNP NO	PNP NO		
Teach-in input (Q3)	No (internal)	Yes		
Response time		2 ms		
Acknowledgment signal (Q2)	No	50 ms (after Q3)		
Blanking input	Yes (10 ms response time)			
Interlocking input	Yes (50 ms response time)			
Max. output current	100 mA			
Output voltage drop	maximum 2.4 V			
Stand-by delay	300 ms			
Switching frequency	500 Hz			
Short circuit protection	Yes			
Polarity reverse protection	Yes			

### Indication and adjusting

Indication and adjusting		
Operation indication	Green LED	
Output indication	3 x Yellow LED	
Tolerance indication	3-point Red LED bar-graph	
Adjusting	Teach-in by 2 keys or external	
Power supply		
Supply voltage	1828 VDC	
Consumption (no load)	< 40 mA at 24 VDC	
Residual ripple	< 10%	
Operating conditions		
Operating temperature	-10 to 55 °C	
Storage temperature	-20 to 80 °C	
Design and materials		
Casing material	ABS, shock-resistant	
Wiring	8-pin connector M12	
Maximum cable length	100 m	
Protection class	IP-67	
Weight	app. 40 g	

#### **Ordering code**

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## SPLC\* - #1#2#3

Code	Feature or option	Code values	
*	Operating mode	1 - normal (internal teach-in), 2 - external teach-in	
#123	Accessories *	C - cable with 8-pin connector, B - mounting bracket, F - reflex foil	
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\* More than one option can be ordered