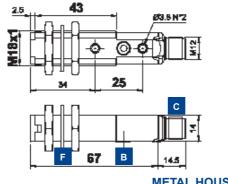
## **U** LUMINESCENCE SENSOR WITH UV EMISSION

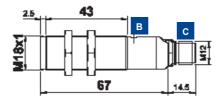
The UV light LED emission detects any luminescent reference, even on very reflective surfaces, such as ceramics, metal or mirrored glass. EASYtouch™ settina procedures fixes automatically the best detection conditions, simply by pressing the teach-in pushbutton once, with the luminescent object present. By pressing the teach-in push-button and holding it down until the green light on the rear of the sensor flashes, with the luminescent object present and then pressing the button again in the presence of a luminescent reference you wish to ignore, a higher level of accuracy is obtained.

#### **DIMENSIONS**

#### **PLASTIC HOUSING**



#### **METAL HOUSING**







#### **INDICATORS AND SETTINGS**





**OUTPUT** status and READY/ERROR LEDs



M12 connector output

Cable output

Fixing nuts

Fixing gasket

Teach-in button for setting.

EASYtouch™ provides two setting modes: standard or fine, both obtained by pressing the push-button only once. Please refer to instructions manual for operating details.

#### **ACCESSORIES**

For dedicated accessories refer to the ACCESSORIES section of this catalogue.

Refer also to Fibre-optics (A.02), Connectors (A.03) and Fixing brackets (A.04) of the General Catalogue.

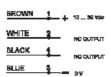
# **CONNECTIONS**







S50-XX-5







TECHNICAL DATA									
		S50-PA-2-U03-NN	S50-PA-2-U03-PP	S50-PA-5-U03-NN	S50-PA-5-U03-PP	S50-MA-2-U03-NN	S50-MA-2-U03-PP	S50-MA-5-U03-NN	S50-MA-5-U03-PP
Operating distance:	8 20 mm	•	•	•	•	•	•	•	•
Power supply:	10 30 Vdc <sup>1</sup>	•	•	•	•	•	•	•	•
Ripple:	≤2 Vpp	•	•	•	•	•	•	•	•
Consumption:	≤ 25 mA	•	•	•	•	•	•	•	•
Light emission:	UV LED 370 nm <sup>2</sup>	•	•	•	•	•	•	•	•
Spot dimension:	approx. 3 mm at 20 mm	•	•	•	•	•	•	•	•
Minimum detectable object:	0.5 mm	•	•	•	•	•	•	•	•
Setting:	teach-in push-button	•	•	•	•	•	•	•	•
Setting procedure:	teach-in <i>EASYtouch</i> ™	•	•	•	•	•	•	•	•
Indicators:						Ц			
	yellow OUTPUT LED	•	•	•	•	•	•	•	•
	green / red READY / ERROR LED	•	•	•	•	•	•	•	•
Output type:		$\perp$				Ц			
	PNP, NO and NC		•		•	Ц	•		•
	NPN, NO and NC	•	_	•		•		•	
Output current:	≤ 100 mA	•	•	•	•	•	•	•	•
Saturation voltage:	≤ 2 V	•	•	•	•	•	•	•	•
Response time:	500 μs	•	•	•	•	•	•	•	•
Switching frequency:	1 kHz	•	•	•	•	•	•	•	•
Operating mode:		_	_			Ц		$\vdash$	
	dark with <i>EASYtouch</i> ™	•	-	•	•	•	•		•
	automatic dark / light with fine acq.	•	•	•	•	•	•	•	•
Connection:						Ц			
	2 m Ø 4 mm cable <sup>3</sup>	•	•			•	•		
	M12 4-pole connector <sup>4</sup>	$\perp$		•	•	Ц		•	•
Electrical protection:	class 2	•	-	•	•	•	•	•	_
Mechanical protection:	IP67	•	•	•	•	•	•	•	•
Protection devices:	A, B <sup>5</sup>	•	•	•	•	•	•	•	•
Housing material:						Ц			
	PBT	•	•	•	•	Ц	$\Box$	$\vdash$	
	nickel plated brass					•	•	•	•
Lens material:	PMMA	•	•	•	•	•	•	•	•
Weight:		$\perp$	_			Ц			
	75 g max.	•	•			Ц		Ш	
	25 g max.	+	$\vdash$	•	•	$\sqcup$	$\perp$	$\vdash$	
	110 g max.	1	_			•	•	Ц	
	60 g max.	1	L			L		•	•
Operating temperature:	-25 +55°C	•	-	•	•	•	•	•	•
Storage temperature:	-25 +70°C	•	-	•	•	•	•	•	•
Reference standard:	EN 60947-5-2	•		•	•	•	•	•	•

CEL	FCT		TAI	31 E
3FI	<b>–</b> (. I	$\mathbf{u}$		31 F

piastic - axiai optics - 2 m cable					
S50-PA-2-U03-NN	952001700	NPN			
S50-PA-2-U03-PP	952001300	PNP			
metal - axial ontice - 2 m cable					

metal - axial optics - 2	m cable	
S50-MA-2-U03-NN	952021580	NPN
S50-MA-2-U03-PP	952021100	PNP

plastic - axial optics - M12 connector				
S50-PA-5-U03-NN	952001590	NPN		
S50-PA-5-U03-PP	952001310	PNP		

metal - axial optics - M12 connector					
S50-MA-5-U03-NN	952021740	NPN			
S50-MA-5-U03-PP	952021300	PNP			

All the ordering codes and information are summarised in the last pages of this catalogue.

#### **TECHNICAL NOTES**

- <sup>1</sup> Limit values
- $^2$  Average life of 100.000 h with  $T_A$  = +25  $^{\circ}\mathrm{C}$
- <sup>3</sup> PVC, 4 x 0.14 mm<sup>2</sup>
- <sup>4</sup> Compatible with quick connection systems
- <sup>5</sup> A reverse polarity protection
  - B overload and short-circuit protection on the outputs



### **DETECTION DIAGRAMS**



Operating distance

