

## PS1 L 965 S



- Sensing distance adjustable from :  
50 to 300 mm
- Supply : 10 / 30 VDC
- Outputs : PNP / NPN
- Timer standard
- High accuracy



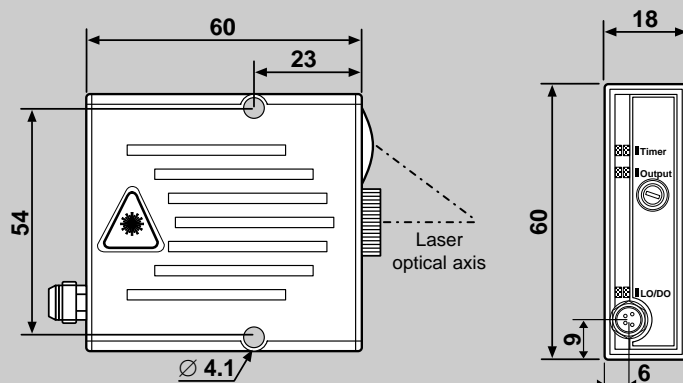
### Description :

- Emission by visible red light
- Spot size by adjustable focus
- Distance adjustment by precision screw
- Direct and inverse function
- Programmable timer to 40 ms max.
- 3a class laser
- On / Off function

### Applications :

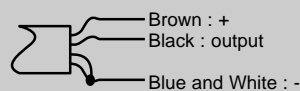
- Control of small parts on a production machine.
- Detection of components on a printed circuit.
- Presence control of crack in a part.
- Level control.
- Elimination of background.

### Dimensions

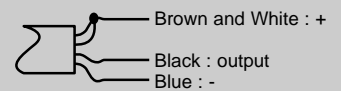


### Wiring Connections and Outputs

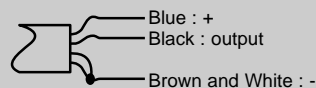
#### DIRECT FUNCTION WITHOUT TIMER



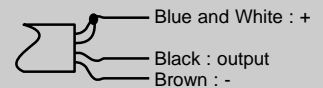
#### DIRECT FUNCTION WITH TIMER



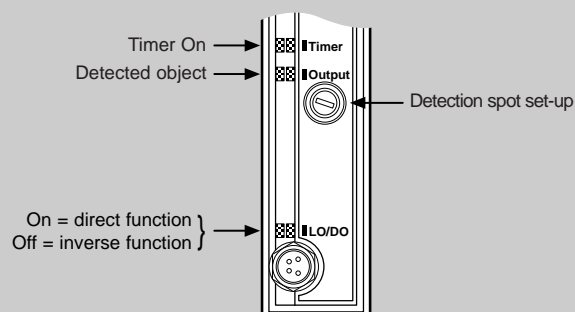
#### INVERSE FUNCTION WITHOUT TIMER



#### INVERSE FUNCTION WITH TIMER



### Visualition and Adjustments



## Technical Information

<b>Supply</b>	voltage	10 / 30 VDC ripple < 10% within specified limits
	consumption	35 mA
<b>Response time</b>	$t_{on}$ or $t_{off}$	< 150 $\mu$ s
	switching frequency	5 KHz
<b>Minimum object size</b>		< 0,5 mm
<b>Outputs</b>	max. nominal intensity	100 mA
	residual voltage at 100 mA	< 2 V
	residual voltage at 10 mA	< 1 V
<b>Emission</b>	pulsed laser LED	T pulse = 6 $\mu$ s, T period < 50 $\mu$ s wavelength = 675 nm
<b>Timer</b>	40 ms	presence or absence of the object switches the output
<b>Temperature</b>	operating	0 to 50 $^{\circ}$ C
	storage	-20 to 80 $^{\circ}$ C
<b>External light immunity</b>	incandescent light	> 50 cm with a 100 W / 230 Vac bulb
	sunlight	> 50 cm with a 55 W / 12 Vdc iodine bulb
<b>Protections</b>	output	permanent short-circuit or over-load protection
	degree of protection	IP 65
<b>Programming</b>		by wiring
<b>Distance set-up</b>		precision screw 30 rotations



**Laser Radiation : do not look at the beam with naked eye, nor with an optical instrument.  
3a class laser appliance**

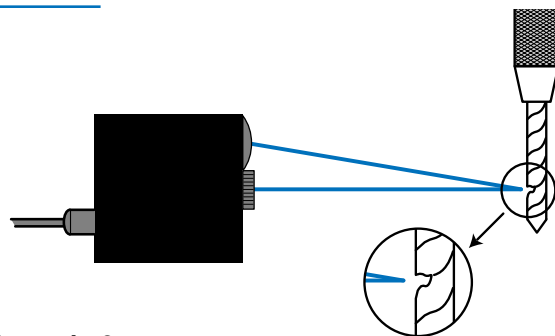
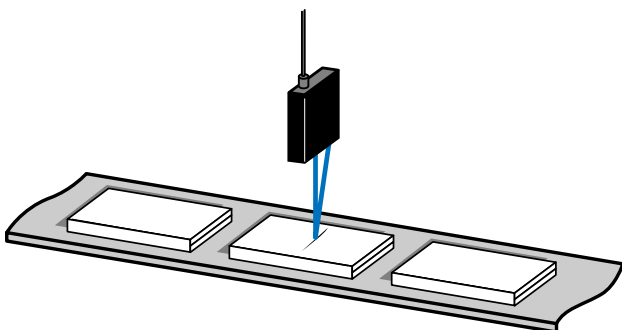
## To Place Order

<b>Product</b>	Laser diffuse detection sensor with simple triangulation
<b>Reference</b>	PS1 L - ( ) - 965 S ( ) output by cable 2m (C0) output M8 plug without cable
Cable for M8 plug if necessary, please order together with the sensor	CM 82 - cable 2m CM 85 - cable 5m

### TYPES OF APPLICATIONS

#### Example 1

Control of crack presence in a part.



#### Example 2

Break control of a drill on a tool-machine.