

PS2 945 S

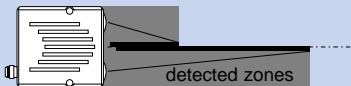


- Sensing distance adjustable from :
50 to 600 mm
- Supply : 10 / 30 VDC
- Outputs : PNP / NPN
- Timer standard
- High accuracy

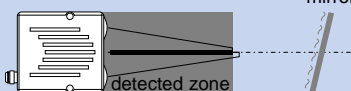


Description :

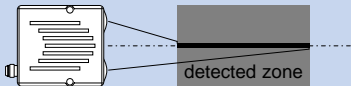
- Four operating modes :
- two independent triangulation sensors (A, B)



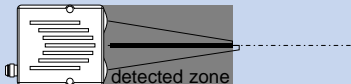
- reflections immunity (A and B)



- distance control (A xor B)



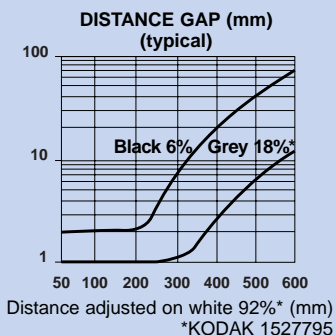
- contrasted objects (A or B)



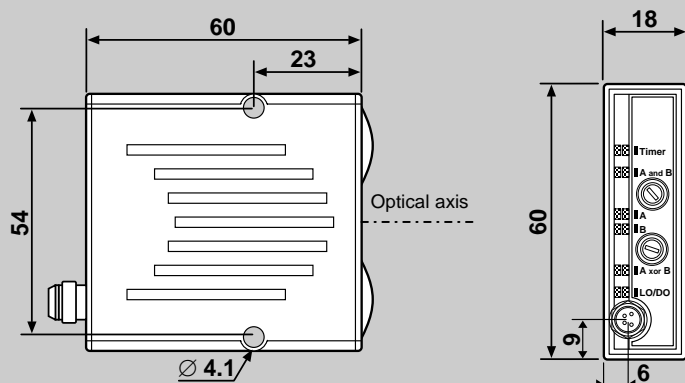
- Timer
- Direct or inverse output
- Output : PNP / NPN
- Cable or M8 plug

Applications :

- Filling control (A xor B).
- Detection on a conveyor with reflective background (A and B).



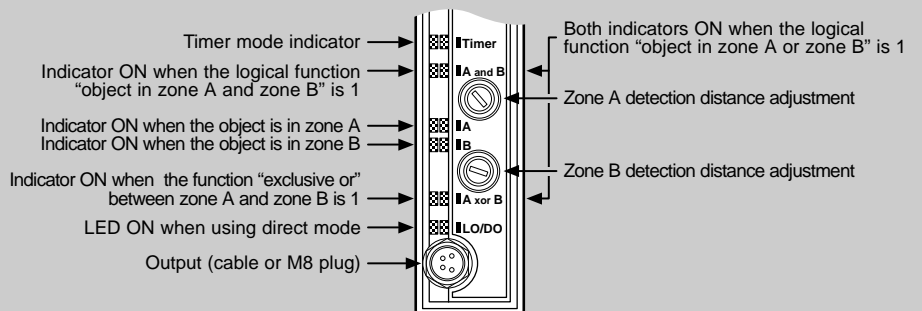
Dimensions



Wiring Connections and Outputs

Mode	Output	Wiring
TWO INDEPENDENT TRIANGULATION SENSORS (A, B)	DIRECT OUTPUT	Brown : +10/30 V Blue : 0 V Black : ZONE A output White : ZONE B output
	INVERSE OUTPUT	Brown : 0 V Blue : +10/30 V Black : ZONE A output White : ZONE B output
REFLECTIONS IMMUNITY (A and B)	TIMER OFF	Brown : +10/30 V Blue : 0 V Black : output White : Blue
	TIMER ON	Brown : +10/30 V Blue : 0 V Black : Blue White : output
DISTANCE CONTROL (A xor B)	TIMER OFF	Brown : +10/30 V Blue : 0 V Black : output White : Brown
	TIMER ON	Brown : +10/30 V Blue : 0 V Black : Brown White : output
CONTRASTED OBJECTS (A or B)	DIRECT OUTPUT	Brown : +10/30 V Blue : 0 V Black : output White : Black
	INVERSE OUTPUT	Brown : 0 V Blue : +10/30 V Black : output White : Black

Visualisation and Adjustments



Technical Information

Supply	voltage	10 / 30 VDC ripple < 10% within specified limits
	consumption	< 1,5 watts
Response time	t _{on} or t _{off}	< 1,8 ms
	switching frequency	370 Hz
Outputs	max. nominal intensity	100 mA
	residual voltage at 100 mA	< 2 V
	residual voltage at 10 mA	< 1 V
Emission	LED	infra-red, beam ø 15 mm
Timer	A and B / A xor B modes	minimum signal duration 40 ms
Temperature	operating	0 to 50 °C
	storage	-20 to 80 °C
External light immunity	incandescent light	> 30 cm with a 100 W / 220 Vac bulb
	sunlight	> 50 cm with a 75 W / 12 Vdc iodine bulb
Protections	output	permanent short-circuit or over-load protection
	degree of protection	IP 65
Programming		by wiring
Distance set-up		precision screw 30 rotations

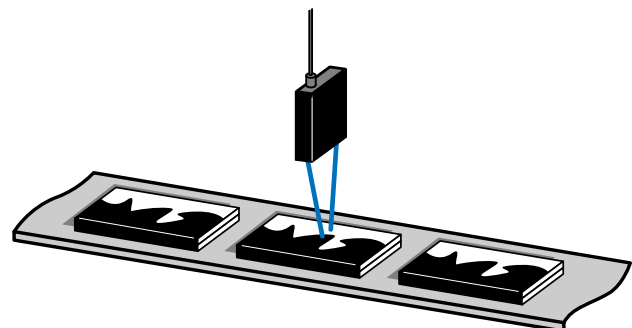
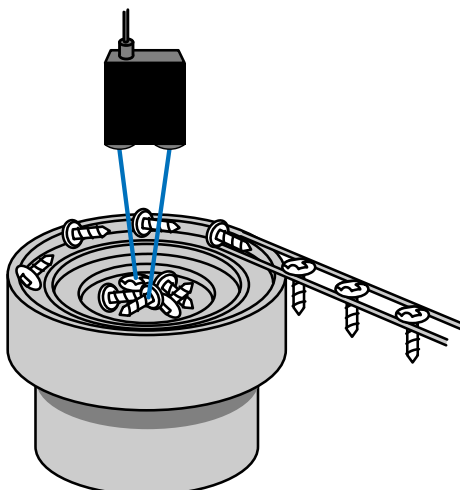
To Place Order

Product	Diffuse detection sensor with double triangulation
Reference	PS2 - () - 945 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

Level detection in a bowl feeder (empty or full) using mode "two independent triangulation sensors" (**A, B**).



Example 2

Black and white pads detection on a conveyor using mode "contrasted objects" (**A or B**).