

## BA 966 S

- Sensing distance
  - On reflector  $\varnothing 46$  : 10 cm to 1m
  - On reflector  $\varnothing 84$  : 10 cm to 2m
- Supply : 10 / 30 VDC
- Output : PNP / NPN
- Friendly adjustment by key + / -
- Bargraph



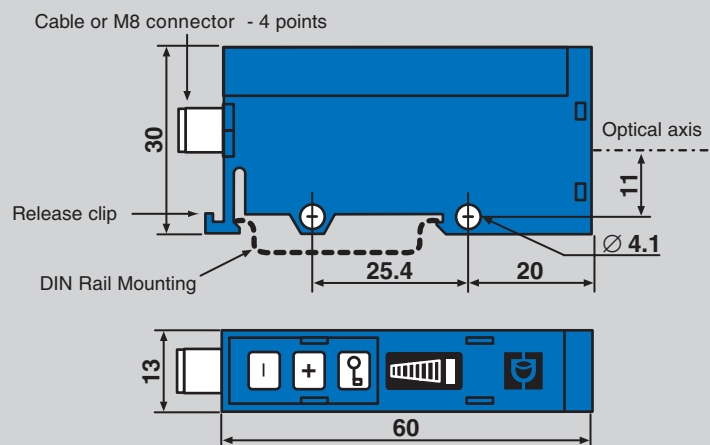
### Description :

- Immunity to reflection
- Simple adjustment
- Sensitivity bargraph
- Maximum and minimum sensitivity indication
- Keyboard lock
- Direct or inverse output
- Output : PNP / NPN
- Cable or M8 connector
- Polycarbonate strong housing

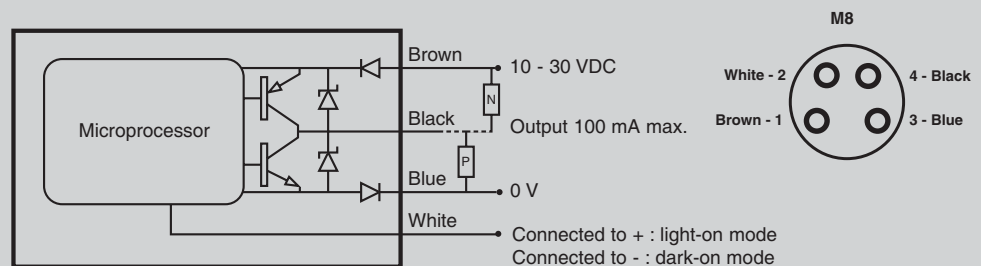
### Applications :

- Position or presence control of parts on conditioning machine.
- Through-beam on a conveyor.
- Detection of shiny parts.

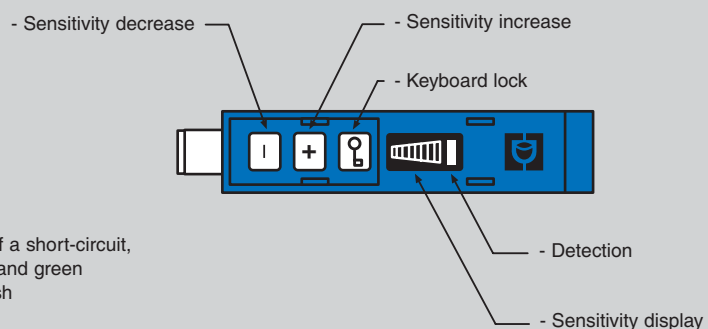
### Dimensions



### Wiring Diagram



### Visualisation and Adjustment



## Technical Information

|                                    |                            |   |
|------------------------------------|----------------------------|---|
| <b>Supply</b>                      | voltage                    | 10 / 30 VDC<br>ripple < 10% within specified limits |
|                                    | consumption                | < 40 mA   |
| <b>Response time</b>               | $t_{on}$ or $t_{off}$      | < 500 $\mu$ s                                       |
|                                    | switching frequency        | < 1 KHz   |
| <b>Output</b>                      | max. nominal intensity     | 100 mA  |
|                                    | residual voltage at 100 mA | < 2 V   |
|                                    | residual voltage at 10 mA  | < 1 V   |
| <b>Emission</b>                    | LED                        | red   |
|                                    | modulation frequency       | 8 KHz   |
| <b>Temperature</b>                 | operating                  | 0 to 60 °C  |
|                                    | storage                    | -20 to 80 °C  |
| <b>External light immunity</b>     | incandescent light         | 10 000 lux  |
|                                    | sunlight                   | 20 000 lux  |
| <b>Protections</b>                 | supply                     | inverse polarity protection                         |
|                                    | output                     | permanent short-circuit or over-load protection     |
|                                    | degree of protection       | IP 65   |
| <b>Light-on / dark-on function</b> |                            | see wiring diagram                                  |

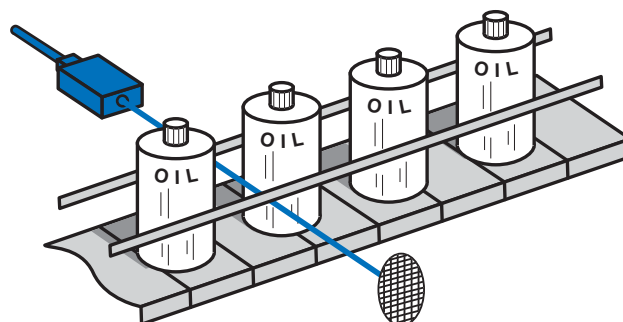
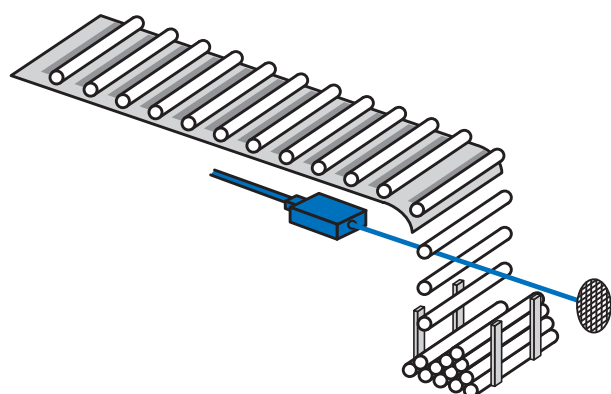
## To Place Order

|   |  |
|---|--|
| <b>Product</b>  | Retro-reflex polarised axial sensor  |
| <b>Reference</b>  | BA 966 S : 2m length cable output  |
|   | BA CO 966 S : M8 connector output  |
| Cable for M8 connector<br>To order together with the sensor | CM 82 - cable 2m<br>CM 82 C - cable 2m with right angle connector<br>CM 85 - cable 5m<br>CM 85 C - cable 5m with right angle connector |

## TYPES OF APPLICATIONS

### Example 1

Pieces count at a conveyor output.



### Example 2

Detection of shiny metallic cans.