

**BL 946 S**



- Sensing distance
  - On reflector  $\varnothing$  46 : 1m
  - On reflector  $\varnothing$  84 : 2m
- Supply : 10 to 30 VDC
- Output : PNP / NPN
- On-delay or off-delay timer standard



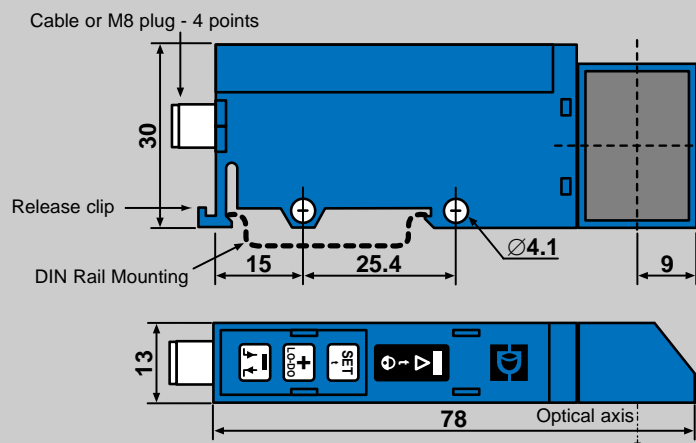
**Description :**

- Thickness reduced to 13 mm
- Reflections immunity
- Simple and quick set-up for self-teach (standard and sensitive mode)
- Adjustable timer
- Alignment indicator
- Dirty optics indicator
- Keyboard lock
- Remote input for self-teach (sensitive mode)
- Direct or inverse output
- Output : PNP / NPN
- Cable or M8 plug
- Polycarbonate strong housing

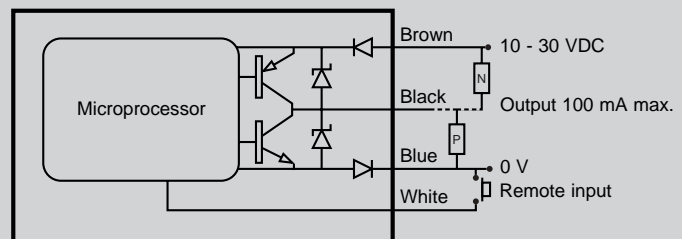
**Applications :**

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

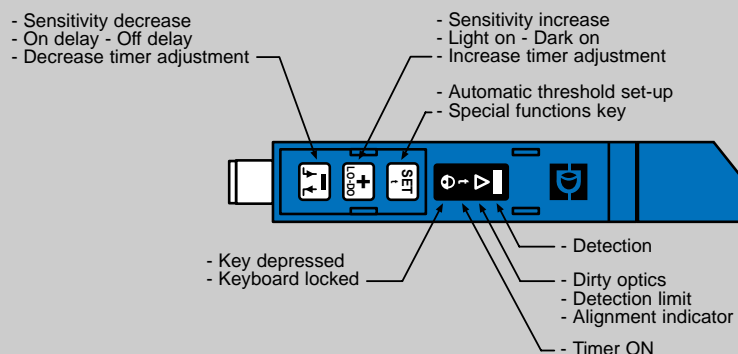
**Dimensions**



**Wiring Connections**



**Visualisation and Keyboard**



**Technical Information**

<b>Supply</b>	voltage	10 / 30 VDC ripple < 10% within specified limits
	consumption	< 40 mA
<b>Response time</b>	t <sub>on</sub> or t <sub>off</sub>	< 500 µs
	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>Timer</b>	range	0 to 5 s with 11 increments
	increment duration	first increment : 40 ms, following increments : 500 ms
<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>Remote input</b>	on	voltage < 1,4 V
	off	voltage > 3 V

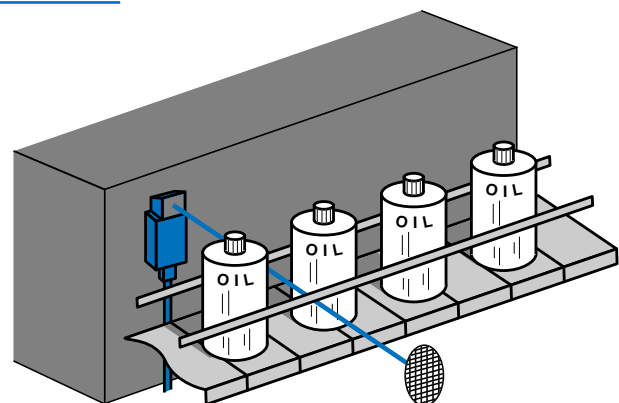
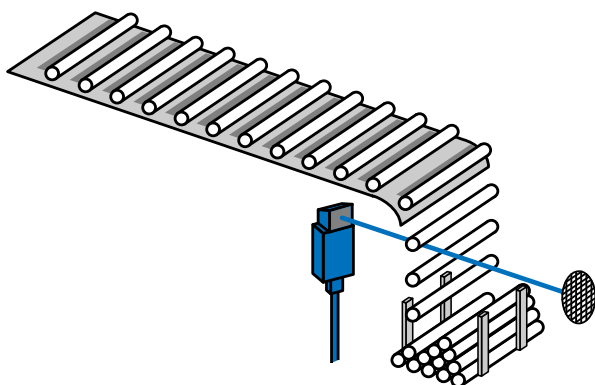
**To Place Order**

<b>Product</b>	Retro-reflex polarised lateral sensor
<b>Reference</b>	BL - ( ) - 946 S ( ) output with cable 2m (C0) output M8 plug without cable
Cable for M8 plug if necessary, please order together with the amplifier	CM 82 - cordon 2m CM 85 - cordon 5m

TYPES OF APPLICATIONS

**Example 1**

Pieces count at a conveyor output.



**Example 2**

Detection of shiny metallic cans.