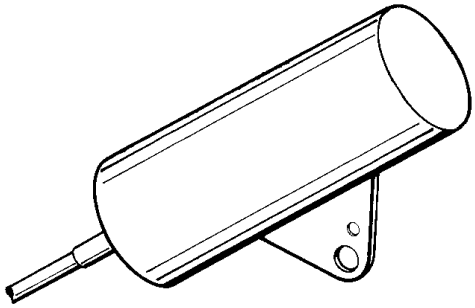
Proxitron
Sensoren für Automation

Piros Retro-Reflective Sensors
LRA 121.18 G

Piros retro-reflective sensor with for material monitoring and object detection in steel and rolling mills.

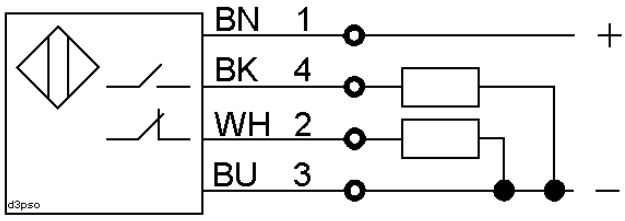
Robust stainless steel design with electronic adjusting aid and contamination control by LED indication



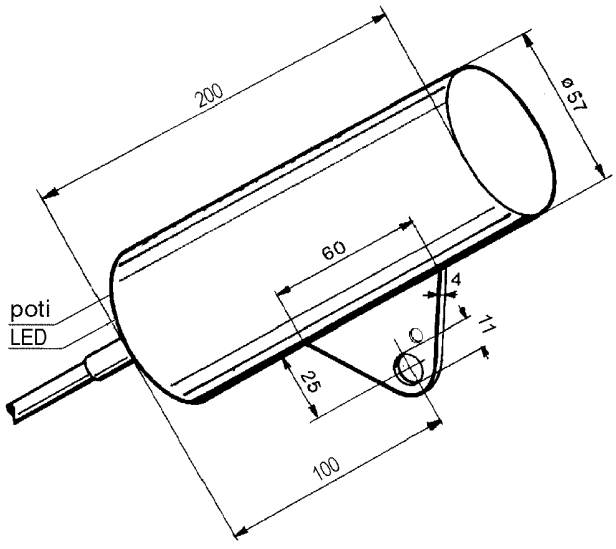
Technical data

Type	**LRA 121.18 G**
Art.-No.	5001U
Output closed by beam-interruption opened by beam-interruption	PNP n. o. PNP n. c.
Range	12 m
Supply voltage	24 V DC
Ripple voltage	15 % max.
Load current max.	0 - 400 mA
Short-time load current	2 A / 10 ms 0,8 A / 100 ms
Short circuit protection	yes, pulsing
Voltage drop	2 V
Operating frequency	100 Hz
Ambient temperature	-20 to +75 °C
Protection class	IP 67
Connection	2m POKT-Therm cable
Function display	LED Ø 5mm
Adjusting device and contamination control	3 LED Ø 3mm
Housing material	stainless steel

Diagram of Connections



By means of the electronic adjusting unit align the sensor exactly. When the sensor swivels, the green LEDs reach their max. indication in the center of the optic axis.
If required the approx. point of operation of retro-reflective sensors is to be determined by means of the potentiometer. The position of the potentiometer has different meanings dependent on the application: If in case of max. position of the poti (at the right) all green LEDs give light, max. protection against contamination of sensor and reflector is achieved – however in the near range of the sensor there is danger of misfunction because of possible reflection by the object itself. Therefore the point of operation is to be shifted by turning the potentiometer to the left until only the 2-colour LED gives green light.
If safety in operation is not longer achieved, e. g. by contamination, the LED changes from green to red blinking.
NOTE: If the sensor does not work at max. position of potentiometer (at the right), you must find out when the sensor begins working by slight turning to the left.



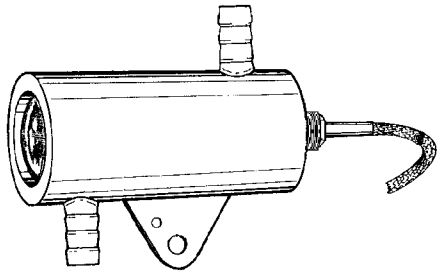
Proxitron GmbH - Gärtnerstr. 10 - D-25335 Elmshorn - Tel. 04121/2621-0 - Fax. 04121/24404 - mail@proxitron.de

Proxitron
Sensoren für Automation

Piros Retro-Reflective Sensor
LRB 121.18 G

Piros retro-reflective sensor with cooling shell for material monitoring and object detection in steel and rolling mills.

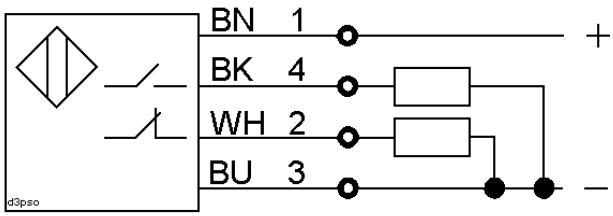
Robust stainless steel design with electronic adjusting aid and contamination control by LED indication

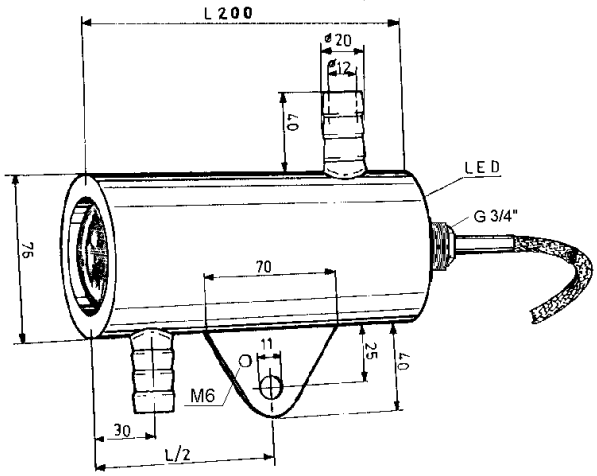


Technical data

Type	LRB 121.18 G
Art.-No.	5001T
Output closed by beam-interruption opened by beam-interruption	PNP n. o. PNP n. c.
Range	12 m adjustable
Supply voltage	24 V DC
Ripple voltage	max.15 %
Load current max.	0 - 400 mA
Short-time load current	2 A / 10 ms 0,8 A / 100 ms
Short circuit protection	yes, pulsing
Voltage drop	2 V
Operating frequency	100 Hz
Ambient temperature	-20 to +80 °C (without cooling)
Protection class	IP 67
Connection	2 m POKT-Therm cable
Function display	LED Ø 5mm
Adjusting device and contamination control	3 LED Ø 3mm
Housing material	stainless steel cooling jacket

Diagram of Connections





Proxitron GmbH - Gärtnerstr. 10 - D-25335 Elmshorn - Tel. 04121/2621-0 - Fax. 04121/24404 - mail@proxitron.de