



Piros thru-beam sensor 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	LSB 201.53 LK
Art.-No.	5003L
Usable with transmitter	LAA 201 LAB 201
Output closed by beam-interruption	normally open
Range	25 m
Function	receiver
Supply voltage	115 V AC ±15%
Power frequency	45 – 65 Hz
Load current max.	0 - 400 mA
Short-time load current	2 A / 10 ms 0,8 A / 100 ms
Short circuit protection	yes
Current absorbed	approx. 40 mA
Operating frequency	25 Hz
Ambient temperature	-20 to +80 °C without cooling
Protection class	IP 67
Connection	2 m steel armoured silicone cable with G 3/4" flexible tube connection
Function display	LED Ø 5mm
Adjusting device and contamination control	3 LED Ø 3mm
Housing material	stainless steel with cooling jacket

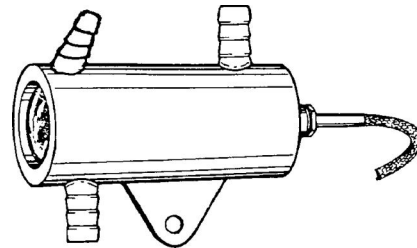
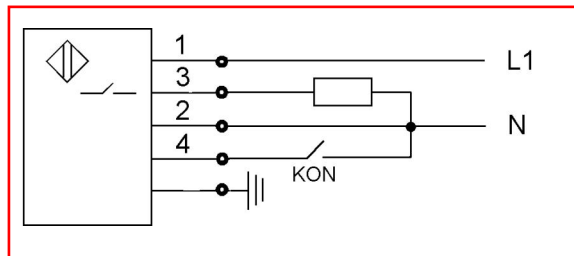


Diagram of Connections



The electronic adjusting device of Proxitron thru-beam sensor receivers serves for exact alignment to the transmitter. When the thru-beam sensor swivels, the green LEDs reach their max. indication in the centre of the optic axis. If no IR-radiation from the transmitter reaches the receiver, all three 3 mm LEDs remain dark. Already slight transmitter radiation incoming causes the receiver to switch. Normally-close: large LED (red) gives light. Normally-open: large LED (red) stops to give light. In the moment of switching the left 3 mm LED starts blinking in red. Thus it indicates: there is radiation, but it is not sufficient for safe operation. With increasing radiation the left LED changes from blinking in red to green light. Now safe operation is guaranteed. During alignment it should be tried to induce the second and third green LED to show green as well, in order to reach max. possible safety margin for operation.

