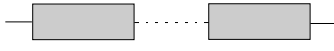

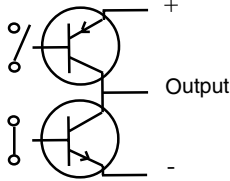
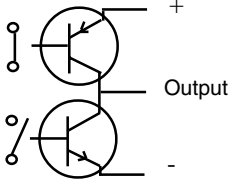
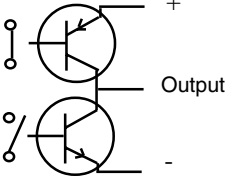
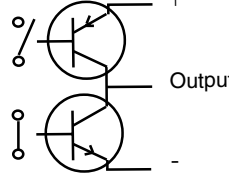
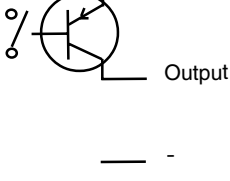
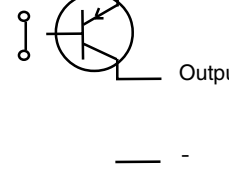


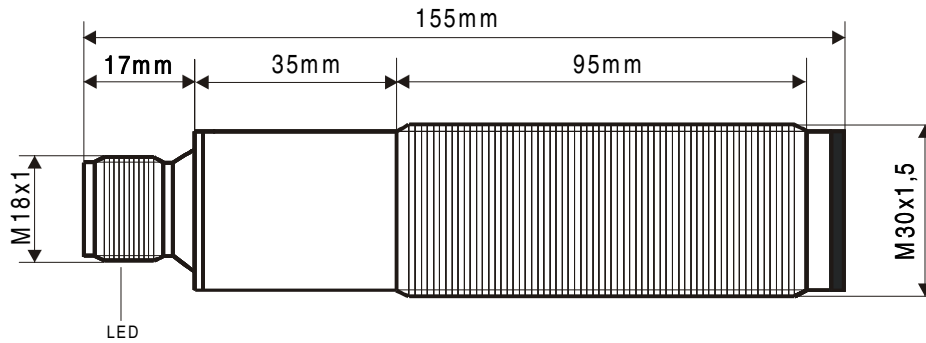
## Light Barrier IRL-25-SE / S17 and IRL-50-SE / S17



- with Push-pull Output N- or P-switching
- with Connector
- also available with fibre optic lead / IRL-...-SE-GF / Spez.17

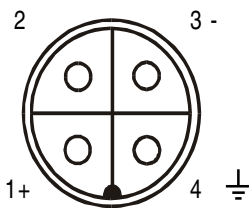
Type	IRL-25N-SE / Spez.17 IRL-25P-SE / Spez.17	IRL-50N-SE / Spez.17 IRL-50P-SE / Spez.17
<b>Technical Data</b>		
Denomination	S: Emitter / E: Receiver	
Range	25m	50m
Supply Voltage	20-28 VDC / Ripple max. 10% Vpp	
Current Consumption	Emitter: 40mA / Receiver: 25mA	
max. Output Current	100mA	
Operating Frequency	100Hz	
Output Protection	Permanent short circuit / Reverse battery protection	
Operating Temperature	-20°C ... +50°C	
Casing	M30 / Ni plated brass	
Protection Level	IP65 according to EN 60529	
Accessories	2 clamps (or 4 nuts M30)	
Cable Connection: Emitter Cable Connection: Receiver	Connector Binder Series 714	
Options	Also available with Operating Frequency up to 1kHz	
Adaption fibre optics	Possible at the Version IRL-...-SE-GF	
LED Emitter: LED Receiver:	Red LED in the Connector Red LED in the Connector shows status	
Function and LED-Display	 <p>Lightbeam not interrupted LED on</p>	 <p>Lightbeam interrupted LED off</p>
Output N - switching		
Output P - switching		
Output PNP - switching		
For high temperature applications up to +400°C use IRL-...-SE-GF with fibre optic lead (The sensor must be mounted outside of the HT - Area)		

## Dimensions:



Emitter and Receiver have the same dimensions

## Connection Layout:



### Receiver

1 +  
2 Output  
3 -  
4 Protection Earth  $\perp$

### Transmitter

1 +  
3 -  
4 Protection Earth  $\perp$

## Operating Manual:

### Mounting prescriptions

We recommend that the sensor is installed insulated from the protective earth. The sensor must only be used with the voltage shown on the identification label. The connection cable must not be installed parallel to high voltage cables.

### Function

If the Light beam is interrupted by an object the output is switching and the red LED turns off. The receiver has one Push-Pull-output. The load (Relay or other loads) can be connected at + or - .

### Maintenance

The sensor does not require any special maintenance. Should the sensor become dirty, it should be cleaned with a non-aggressive medium. Equipment should only be repaired or serviced by the manufacturer.

### Safety instructions

Should the sensor cable be broken or the sensor in any way become defect, the output may show any mode.

When installing and operating with the sensors, it is necessary to take into consideration the relevant EU and national regulations.

### Standards met

- EN 50081-1/-2, EN 50082-1/-2,  
- EMC 89/336/EWG, 92/31/EWG,  
93/68/EWG

### General Notes

Our equipment is produced to the highest technical standard. We reserve the right to modify the equipment in order to incorporate new technical developments or improvements. Our light barriers are assembled nonpolluting as possible. We don't take back unserviceable or irreparable units. For disposing observe the current local waste disposal laws and regulations.

APR.26,99/TB

## Group

### Tippkemper - Matrix GmbH

Meegener Str. 43 D-51491 Overath  
Tel.: +49 (0) 2206/9566-0 Fax -19

### Matrix Elektronik AG

Kirchweg 24 CH-5422 Oberehrendingen  
Tel.: +41 (0) 56/2220-757 Fax -563