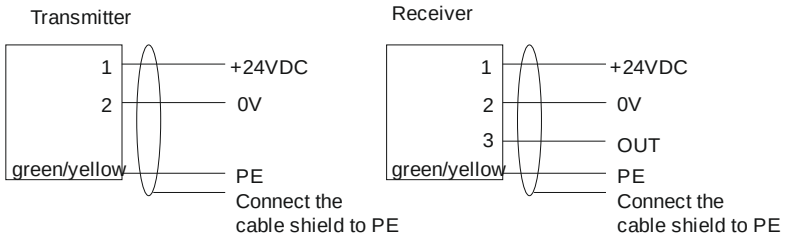
Original operating manual
One-way light barrier ILS-260

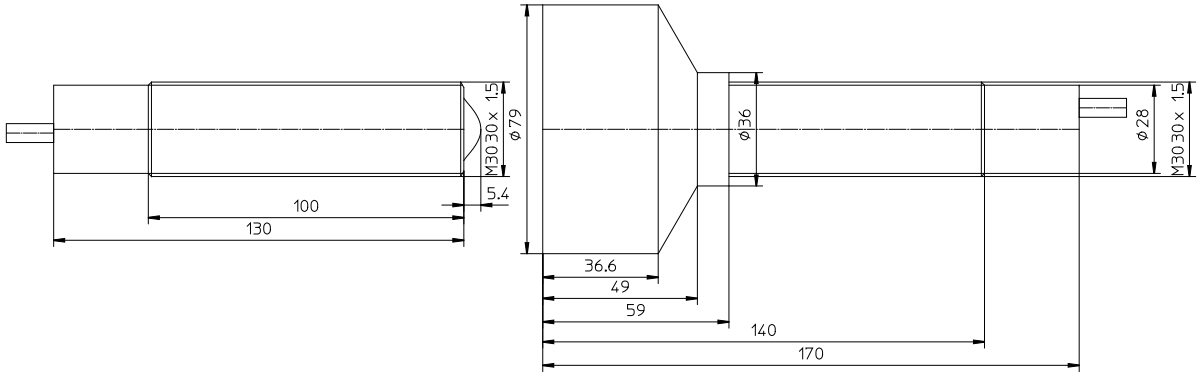
- High range
- Easy alignment and assembly
- Stable metal housing

Type / Technical specification	transmitter: **ILS-260-ADZ-WO,** receiver: **ILS-260-LEB-NO**
Range	600m
Type of light / wavelength	infrared / 850nm
Ready delay	500ms
Supply voltage	24 V/DC +/-10%
Current consumption	transmitter: 80mA, receiver: 30 mA
Optical opening angle	transmitter ±3,5°, receiver ±7°
Output type	PNP, short-circuit proof
Switching current DC	≤ 100mA
Voltage drop max.	1,5V
Reaction time	500ms
Output function	0V -> Light path interrupted, 24V -> Light path free
Display	red -> Light path interrupted, green -> Light path free
Housing protection class	IP67
Working temperature range	-10°C < T_{amb} < +50°C
Storage temperature range	-20°C ... +70°C
Housing	M30 Nickel-plated brass, Aluminum
Connection cable	length 10 m, PUR sheath, 0.5 mm², shielded, numbered wires
Accessories	-2 nuts M30
Weight	transmitter: 270g, receiver: 590g
Options	-Cable length: up to a maximum of 100m, on request
Electrical connection transmitter: 1 +24V/DC 2 0V receiver: 1 +24V/DC 2 0V 3 Output	

Dimensions mm:

Transmitter
ILS-260-ADZ-WO

Receiver
ILS-260-LEB-NO



Operating instructions / EC declaration of conformity:

General assembly instructions
The connection assignment must be strictly adhered to. If the connection cable is shortened or lengthened, the shield must be connected. The shielding must be connected to protective earth (PE). The sensor cables must not be laid parallel to high voltage and high current cables. The limit values must be observed.

Function
The light barrier works with infrared light. If the light path is interrupted, the output of the receiver switches to 0V / red. If the light path is free, the output of the receiver switches to 24V / green.

Alignment
The optics of the light barrier with wide opening angles guarantee easy handling when aligning. Only the mounting height and the lateral offset need to be leveled.

Operation
The light barrier is intended for extremely long distances. It has a high functional reserve for difficult operating conditions. Due to the wide, optical opening angle, reflections can occur at short distances.

Maintenance
The sensor is maintenance-free. If it is dirty, the light passage must be carefully cleaned. Aggressive cleaning agents must not be used. Repairs may only be carried out by the manufacturer.

General safety information
Attention: the light source generates IR radiation. Do not stare into the radiation from the light source. Avoid exposure to eyes. According to IEC / EN 62741, the light source type: **ILS-260-ADZ-WO** is divided into risk group 2 for a distance of less than 40 cm. For larger distances, this is divided into risk group 0 or the free group. Use appropriate eye protection during installation and commissioning. The sensors comply with the following standards: EN 61000-6-2, EN 61000-6-3 / -4, EMC directive 2014/30 / EU. In the event of a fault, the output can assume any state. The relevant EU and national regulations and guidelines must be observed during assembly, operation and maintenance.

General, disposal
We reserve the right to make technical changes. The sensors are built to be as environmentally friendly as possible. Irreparable or no longer used devices must be disposed of in accordance with the applicable regulations.

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