

Manual & Data sheet

Light / dim light / twilight sensor FD-1

The maintenance-free and weather-proofed (IP67) light / dim light / twilight sensor FD-1 is a versatile light sensor to detect and gather ambient, indoor, outdoor, diffuse light, dusk, twilight, dim light.

The output signal is a square wave signal with proportional frequency to the light intensity.

In combination with the control instrument AD-1 individual switching points can be defined to control illumination, light, jalousies, marquees, blinds, shutters, air conditioning, heaters, ventilation, flaps, roof hatches and build-ups.



Connection – Installation – Commissioning:

! Connection, installation and commissioning only by qualified and skilled person with electrical education !

! Mount devices at the provided positions and wire according to the schematics !

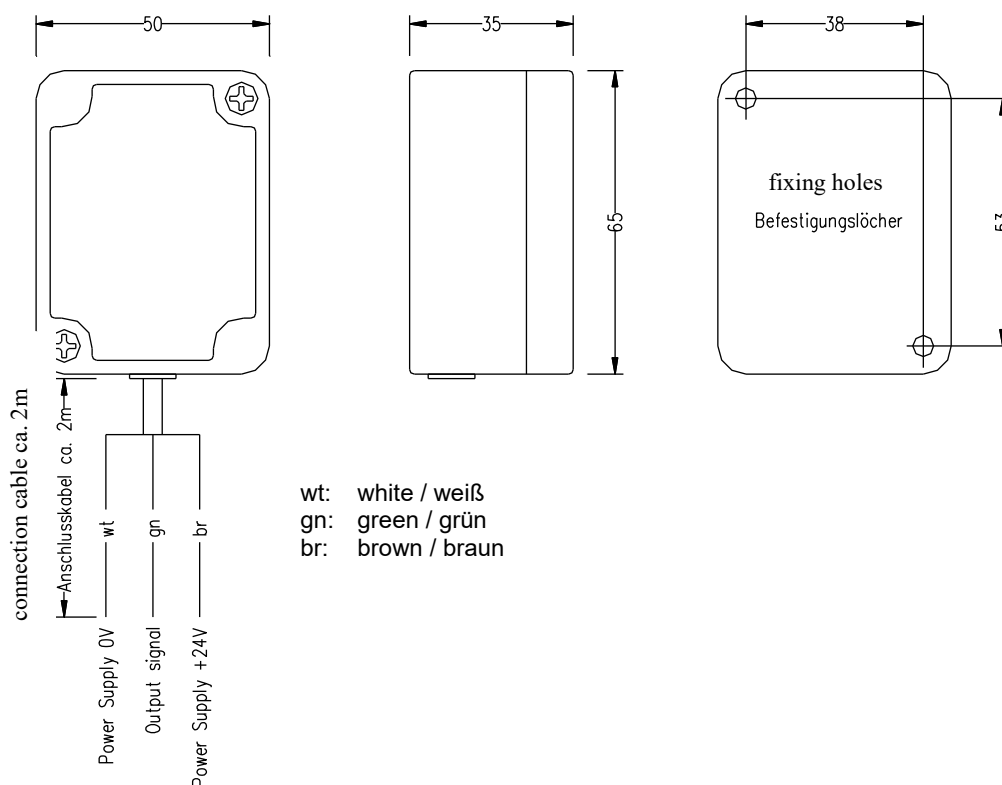
Caution: Wrong connecting may cause damage of the instrument and sensor !

Check for correct wiring before switching on the power supply !

Technical data FD-1:

Operating voltage typ.:	24 VDC $\pm 10\%$ (power supply via control instrument AD-1)
Measuring range:	50...1000 lx (= lm/m ²)
Ambient temperature:	-30...+80 °C
Protection degree:	IP 67
Output signal:	24V square-wave signal: 70...2000 Hz, (open-collector, with protecting resistor)
Connection:	ca. 2 m wired-ready cable, 3-wire, 3x 0.25 mm ²
Dimensions:	50 x 65 x 35 mm (WxHxD)

Dimensions / Connecting plan:



Installation and mounting:

Mounting of FD-1 in upright / vertical direction with max. grade / inclination of 30° (see picture above) and cable connection from bottom side.

Select mounting place northwards (in northern direction). Diffused light, extraneous light, scattered or stray light falsify the measured values and have to be avoided.