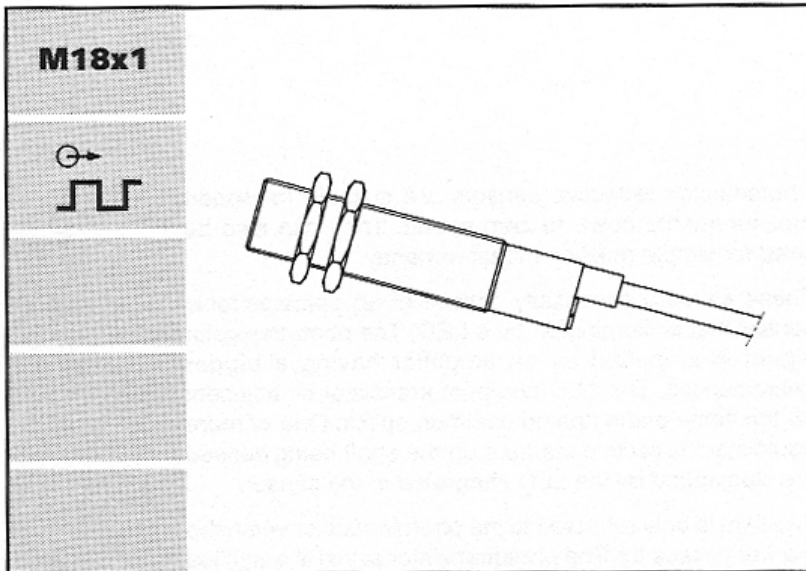


## DSR 18200 K

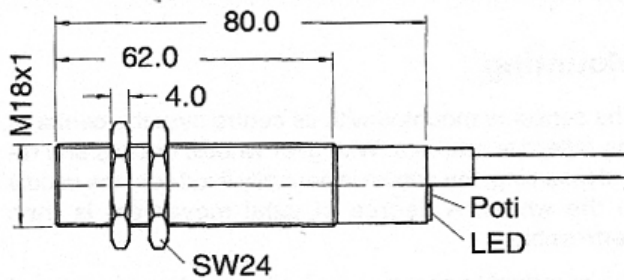


### Features

- With amplifier
- Static characteristic
- No residual magnetic field
- Reflective markers at target
- Open collector output
- Without internal pull-up resistors

## Dimensions

### Version K



## Model overview

Type	Part nr.	Connection	Housing thread	Weight [g]	Operating temperature [°C]	Notes
DSR 18200 KTV	830G-35931	Cable 2 m	M18x1	125	-10...+60	Standard

# Photo-electric reflective sensor

**Type DSR 18200  
Version K**

## Technical Data

### Supply

Power supply

Supply voltage 10...30 D.C.,  
max. superimposed A.C. voltage 25 mVpp, protected against reverse polarity.  
Current consumption: max. 40 mA.

### Input

Frequency range

0 Hz...1.5 kHz

Noise immunity

Noise generator between housing and electronics:  
1.5 kV/1.5 ms, max. 5 Hz (source resistance 500  $\Omega$ )  
2.0 kV/HF-burst (level 4 acc. to IEC 801-4)  
2.5 kV/1 MHz damped resonance (class III acc. to IEC 255-4).

Reflective marker

12.7 x 12.7 mm, retroreflective, 50 candela/lux/m<sup>2</sup>.

Measuring shaft-sensor gap: adjustable in the range of 0...200 mm with trimming potentiometer.

### Output

2 signal outputs

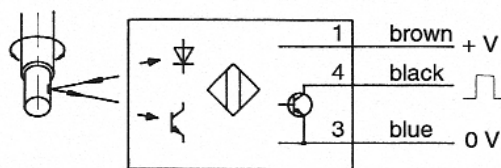
1 normally open contact, square wave signals, open collector, D.C. coupled with power supply (negative pole = reference voltage), max. load 100 mA.

Open collector outputs: external pull-up resistant required.

Output voltage LO: < 2.5 V at I = 100 mA.

Short circuit proof and protected against reverse polarity.

### Connection



### Mechanical

Protection class

IP65 (head and connecting side).

Vibration immunity

3 g<sub>n</sub> in the range 4...100 Hz.

Shock immunity

20 g<sub>n</sub> during 11 ms, half sine wave.

Operating temperature

-10...+60 °C

Insulation

Housing and electronics galvanically isolated (500 V/50 Hz/1 min).

Housing

Brass nickel plated, optics at front side (Caution: impact sensitive).

Components potted in a chemical- and age-proof synthetic resin.

Dimensions acc. to model overview and dimensional drawing.

Weight

125 g

Connecting cable

PVC-cable: 3wire, 2 m, 3 x 0.5 mm<sup>2</sup> (AWG 20).

Outer  $\varnothing$  max 5 mm, bending radius min. 75 mm, weight 15 g/m.

Operating instructions

830E-63927