

#### description

These days, optoelectronic sensors are indispensable components in many automated manufacturing processes. *Ipf laser contrast readers* are highly modern, optical diffuse reflection sensors, which are capable of recognizing different colored objects or color markers. The only requirement is a contrast divergence against the environment. It is irrelevant whether the contrast divergence shows a tendency towards a light color or a dark one.

Due to the very small beam spot, laser contrast diffuse reflection sensors can pick up objects with a high degree of accuracy (to 0.1mm). Sensitivity to outside light sources is negligible. The sensors in this series feature glass lenses in a robust, zinc diecast housing.

The distance setting of the sensing devices takes place via a potentiometer. In so doing, protection class IP67 is safeguarded. The yellow LED display lights up if the output is securely switched. Changes in distance during the reading phase in the operating range 60 and 100mm are non-critical.

The analog output (4 ... 20mA) enables measurands to be imported for further evaluation. Deviations from the setpoint can be detected very easily for example using our *ipf* measuring transducer **BA054900** and corrected through the output of a corresponding output signal.

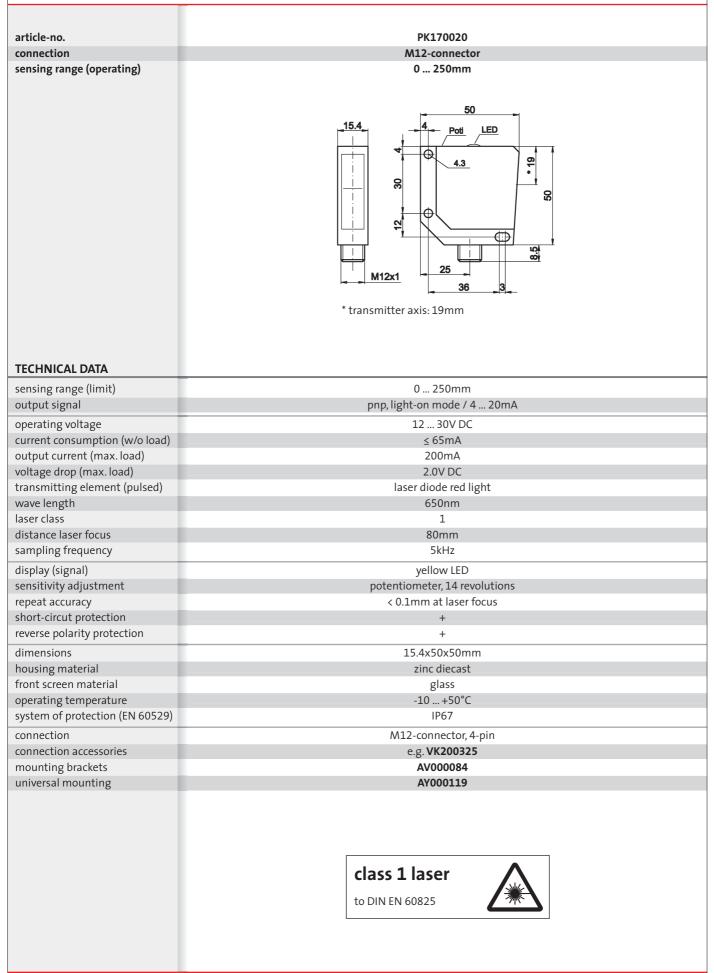
#### application examples

- detection of the edges of objects with a high degree of accuracy
- contact-free detection of positions
- pulse generator for counting devices
- recognition of the smallest of objects



# special optical sensors

## 1400 contrast reader









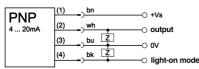


# special optical sensors

## contrast reader 1400

#### connection

connector / cable device

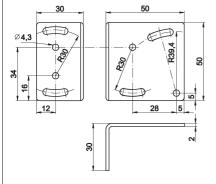


wire colors: bn = brown (1), wh = white (2), bu = blue (3), bk = black (4)

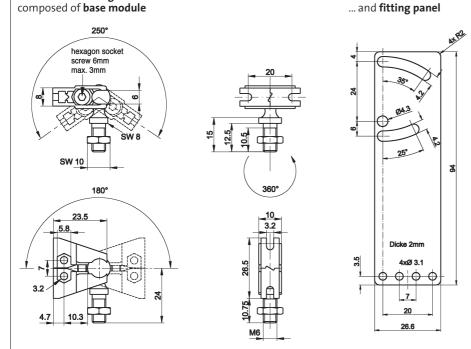
#### laser beam course



mountig bracket AV000084 made of zinced steel



#### universal mounting AY000094 composed of base module



This data sheet contains the standard versions only. Kindly request the availability of other output- and connection functions.

We will be pleased to supply the matching cable socket for your devices with connector. Please refer to the list in catalog chapter "accessories" under "cable sockets **ipf**-**SENSORFLEX®**" or search our Website for "VK".

Warning: Never use these devices in applications where the safety of a person depends on their functionality.

You also find this data sheet, as well as contact details under www.ipf-electronic.com						
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notes

# electrouic

### export division

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