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Model Number

SU10/40a/49/116

Signal transformer

Features

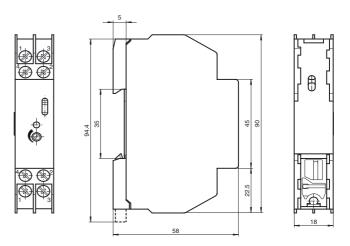
- Signal converter for M4 cylindrical housing of the KT10 series
- Light/dark switch
- · Sensitivity adjuster
- Pre-fault indication
- · Alignable housing
- Screw or snap mounting on mounting rail

Description

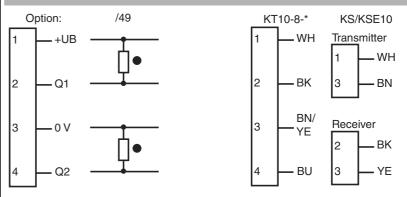
The SU10 is a signal converter for miniature fiber-like sensors of the KT10 series.

The SU10 series features the usage of 3 different types of miniature sensors: Diffusive mode sensor KT10-8-80, Diffusive mode with real background suppression (BGS) sensor KT10-8-H and through beam sensor KS/KSE10.

Dimensions

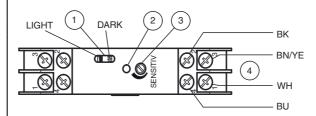


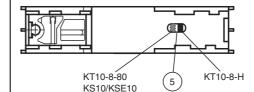
Electrical connection



- O = Light on
- = Dark on

Indicators/operating means





- 1 Light/Dark switch
- 2 Display LED yellow/green
- 3 Sensitivity adjuster
- 4 Connection Sensor
- 5 Changeover switsch sensor type

Operation with KT10-8-80 diffusive sensor energetic:

Intended use:

Note:

The reflex light scanner contains the light transmitter and receiver in a single housing. The light from the transmitter which is reflected back from the object is evaluated by the receiver. The detection range depends on the object colour. With dark or very small objects the detection range reduces.

Mounting instructions:

For the operation of the SU10 in combination with the KT10-8-80, the changeover switch on the bottom side of the SU10 must be on position: KT10

Adjust the sensor on the background. If the yellow LED turns on, the detection range needs to be reduced with the sensitivity adjuster until the yellow LED turns off.

Operation with KT10-8-H miniature diffusive sensor with real background suppression (BGS):

Intended use:

The transmitter and receiver are located in the same housing for direct target detection with background suppression. Suppression of objects outside the detection range is achieved by arranging the angle between the transmitter and receiver (2 receiver elements).

Objects are detected independently of the structure and colour of the surface.

Mounting instructions:

For the operation of the SU10 in combination with the KT10-8-H, the changeover switch on the bottom side of the SU10 must be on position: KT10-H

Turn the sensor sensitivity to maximum with the sensitivity adjuster. The sensing range is defined through the geometric position of the lenses within the sensor.

Accessories

KT10-8-H-8

Diffuse mode sensor with background suppression

KT10-8-80

Diffuse mode sensor

KS/KSE10

Thru-beam sensor

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Singapore: +65 6779 9091

fa-info@sg.pepperl-fuchs.com

Operation with KS/KSE10 thru-beam sensor:

A thru-beam sensor arrangement consists of a transmitter and receiver in separate housings.

The light of the transmitter is received by the receiver, which is installed opposite to the transmitter on a common optical axis.

The receiver evaluates if the lightpath of transmitter and receiver is interrupted by an object.

The switching behaviour is significantly dependent on object size and object opacity.

Mounting instructions:

For the operation of the SU10 in combination with the KS/KSE10, the changeover switch on the bottom side of the SU10 must be on position: KT10

Adjustment:

By reducing the sensitivity at the sensitivity adjuster, smaller and semi opaque object may be more reliable detectable.

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Singapore: +65 6779 9091

fa-info@sg.pepperl-fuchs.com