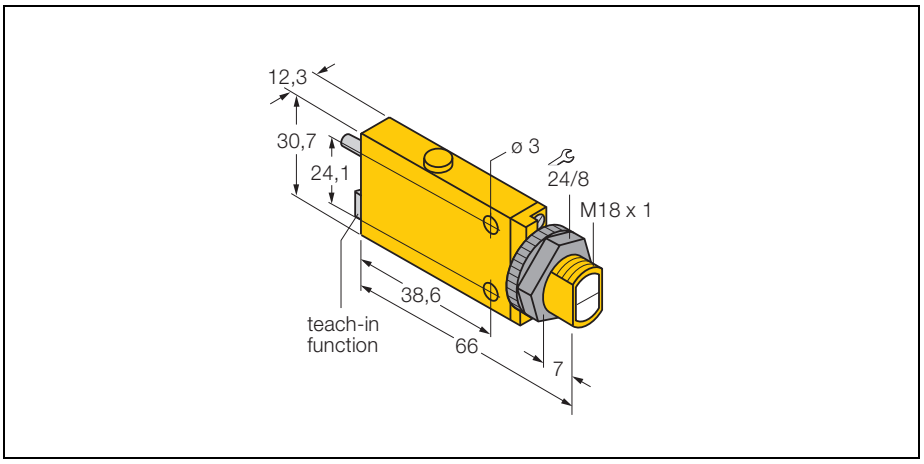
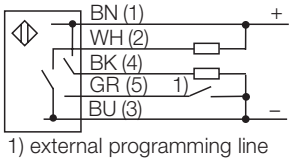
Photoelectric sensor
convergent mode sensor
KOS4-MI-EUNP6X2



- **micro-processor controlled, teach-in function**
- **operational voltage 10..0.30 VDC**
- **cable, 2 m**
- **light/dark operate**
- **sensitivity adjustment**
- **alignment indication**

Wiring diagram



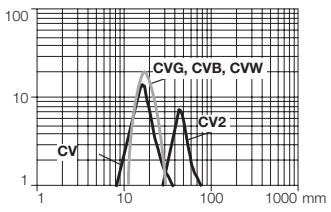
1) external programming line

Type	KOS4-MI-EUNP6X2
Ident-No.	3053911
Operating mode	Convergent mode
Type of light	red
Wave length	650 nm
Focal distance	43 mm
Operating temperature	-20 ...+ 70 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Rated operational current (DC) I_e	≤ 150 mA
No-load current I_0	≤ 45 mA
Short-circuit protection	yes, cyclic
Reverse polarity protection	yes
Output function	normally open, PNP/NPN
Max. switching frequency	≤ 1 kHz
Max. switch-on delay	≤ 100 ms
Overload trip point	>220 mA
Housing style	rectangular; Mini Beam Expert
Dimensions	66 x 12,3 x 30,7 mm
Housing material	plastic, PBT
Lens	plastic, Acryl
Wiring	cable
Cable length	2 m
Cable cross section	5 x 0,5 mm^2
Degree of protection	IP67
Supply voltage indication	LED green
Switching status indication	LED yellow
Excess gain indication	LED red flashing

Convergent mode sensors are equipped with a lens before the emitter diode that produces a small and intense focal point at a defined distance from the sensor. Similar to diffuse mode sensors, the light reflected by the target is evaluated. Convergent mode sensors are ideal for detection of small targets or colour marks and edge guiding or positioning control of transparent materials. The targets must always be within the focal depth of the sensors. The focal depth is defined as the area before or behind the focal point within which the object can be detected. Based on the intense light concentration in the focal point, convergent mode sensors are capable of detecting targets with a low reflectivity.

Excess gain curve

Excess gain in relation to the distance



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