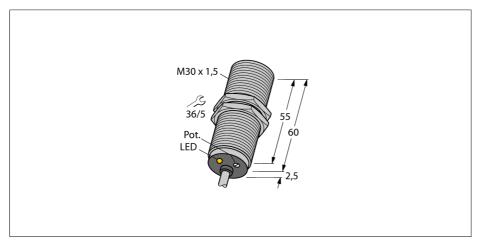
Capacitive sensor BC10-M30K-VN4X





Type code Ident no.	BC10-M30K-VN4X 2503024	
Rated operating distance Sn	10 mm	
Rated operating distance Sn	10 mm, non-flush mounting	
Assured sensing range	≤ (0.72 x Sn) mm	
Hysteresis	220 %	
Temperaturdrift	type ≤ ± 20 %	
Repeatability	≤ 2 % of full scale	
Ambient temperature	-25+70 °C	
Operating voltage	1065VDC	
Residual ripple	< 10 % U	

Output function 4-wire, changover contact, NPN

 $\begin{tabular}{lll} Short-circuit protection & yes/ cyclic \\ Voltage drop at I_e & & \leq 1.8 \ V \\ Wire breakage / Reverse polarity protection & yes/ complete \\ \end{tabular}$

Design threaded barrel, M30 x 1.5

Dimensions 62.5 mm

Housing material Metal, CuZn, chrome-plated

Material active face Plastic, PA, yellow

 $\begin{array}{ll} \mbox{Admissible pressure on front cap} & \leq 3 \mbox{ bar. tightening torque housing nut} & 25 \mbox{ Nm} \\ \mbox{Connection} & \mbox{cable} \end{array}$

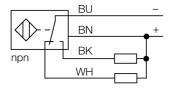
Cable quality \emptyset 5.2, LifYY, PVC, 2 m Cable cross section $4 \times 0.34 \text{ mm}^2$ Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) Protection class

MTTF 1080 years acc. to SN 29500 (Ed. 99) 40 °C

Switching state • yellow

- Threaded barrel, M30 x 1.5
- Chrome-plated brass
- Fine adjustment via potentiometer
- DC 4-wire, 10...65 VDC
- Changeover contact, NPN output
- Cable connection

Wiring diagram



Functional principle

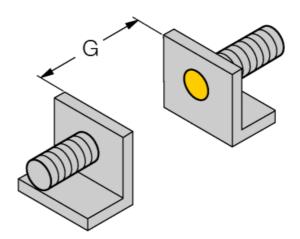
Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as non-conductive metal objects.

TURCK

Capacitive sensor BC10-M30K-VN4X



Mounting instructions / Description	minimum distances
Distance D	60 mm
Distance W	30 mm
Distance S	45 mm
Distance G	60 mm
Diameter of the active area B	Ø 30 mm



The given minimum distances have been checked in compliance with the standard switching distance. Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.

