

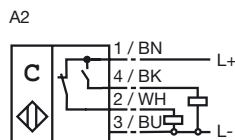
CE

Model Number

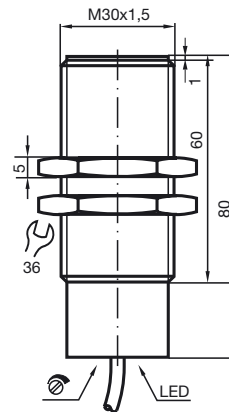
CJ10-30GK-A2-3D

Features

- Comfort series
- The switching distance can be set over a wide range with the potentiometer
- 10 mm not embeddable

Connection**Accessories****BF 30**

Mounting flange

Dimensions**Technical Data****General specifications**

Switching element function	PNP	Antivalent
Rated operating distance	s_n	10 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	s_a	0 ... 7.2 mm

Nominal ratings

Operating voltage	U_B	10 ... 60 V
Switching frequency	f	0 ... 10 Hz
Reverse polarity protection		protected against reverse polarity
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 2.8 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μ A at 25 °C
No-load supply current	I_0	≤ 20 mA
Indication of the switching state		LED, yellow

Standard conformity

EMC in accordance with	IEC / EN 60947-5-2:1999
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Ambient conditions

Ambient temperature	-25 ... 70 °C (248 ... 343 K)
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Mechanical specifications

Connection type	2 m, PVC cable
Core cross-section	0.75 mm ²
Housing material	PBT
Sensing face	PBT
Protection degree	IP65

General information

Use in the hazardous area	see instruction manuals
Category	3D

ATEX 3D

Instruction	Manual electrical apparatus for hazardous areas
Device category 3D	for use in hazardous areas with non-conducting combustible dust
Directive conformity	94/9/EG
Standard conformity	EN 50281-1-1
	Protection via housing
	Use is restricted to the following stated conditions
CE symbol	
Ex-identification	 II 3D IP65 T 91 X
General	The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The data stated in the data sheet are restricted by this operating instruction! The special conditions must be adhered to!
Installation, Commissioning	Laws and/or regulations and standards governing the use or intended usage goal must be observed.
Maintenance	No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.
[Fett]Special conditions	
Maximum operating current I_L	The maximum permissible load current must be restricted to the values given in the following list. High load currents and load short-circuits are not permitted.
Maximum operating voltage U_{Bmax}	The maximum permissible operating voltage U_{Bmax} must be restricted to the values given in the following list. Tolerances are not permitted.
Maximum heating (Temperature rise)	dependant of the load current I_L and the max. operating voltage U_{Bmax} . Information can be taken from the following list. The maximum surface temperature at maximum ambient temperature is given in the Ex identification of the apparatus.
at $U_{Bmax}=60\text{ V}$, $I_L=200\text{ mA}$	21 °C
at $U_{Bmax}=60\text{ V}$, $I_L=100\text{ mA}$	16 °C
at $U_{Bmax}=60\text{ V}$, $I_L=50\text{ mA}$	15 °C
at $U_{Bmax}=30\text{ V}$, $I_L=200\text{ mA}$	16 °C
at $U_{Bmax}=30\text{ V}$, $I_L=100\text{ mA}$	12 °C
Protection from mechanical danger	The sensor must not be mechanically damaged.
Electrostatic charging	Sliding contact discharges must be avoided. Electrostatic charges on the metal housing components must be avoided. Dangerous electrostatic charges on the metal housing components can be avoided by incorporating these components in the equipotential bonding.
Protection of the connection cable	The connection cable must be prevented from being subjected to tension and torsional loading.