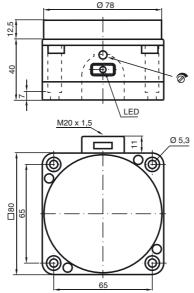
Capacitive proximity switches

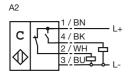
Comfort series
40 mm not embeddable
The switching distance can
be set over a wide range
with the potentiometer



(€

General specifications	
Switching element function	PNP Antivalent
Rated operating distance s _n	40 mm
Installation	not embeddable
Output polarity	DC
Assured operating distance s _a	0 28.8 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
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
Ambient conditions	
Ambient temperature	-25 70 °C (248 343 K)
Mechanical specifications	
Connection type	terminal compartment
Core cross-section	up to 2.5 mm ²
Housing material	PBT/POM
Sensing face	POM
Protection degree	IP65
General information	
Use in the hazardous area	see instruction manuals
Category	3D

Connection type:



Capacitive proximity switches

ATEX 3D

Instruction

Device category 3D

Directive conformity Standard conformity

CE symbol

Ex-identification

General

Installation, Comissioning

Maintenance

[Fett]Special conditions

Maximum operating current IL

Maximum operating voltage UBmax

Maximum heating (Temperature rise)

at U_{Bmax} =60 V, I_{L} =200 mA at U_{Bmax} =60 V, I_{L} =100 mA at U_{Bmax} =60 V, I_{L} =50 mA at U_{Bmax} =30 V, I_{L} =200 mA at U_{Bmax} =30 V, I_{L} =100 mA

Protection from mechanical danger

Electrostatic charging
Connections for external wire

Lead insertion

Manual electrical apparatus for hazardous areas

for use in hazardous areas with non-conducting combustible dust

94/9/EG

EN 50281-1-1

Protection via housing

Use is restricted to the following stated conditions



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!

Laws and/or regulations and standards governing the use or intended usage

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.

The maximum permissible load current must be restricted to the values given in

High load currents and load short-circuits are not permitted.

The maximum permissible operating voltage UBmax must be restricted to the values given in the following list. Tolerances are not permitted.

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.

27 °C

23 °C

19 °C

22 °C

15 °C

The plug connector must not be disconnected under voltage. The proximity switch is marked as follows: "DO NOT DISCONNECT UNDER VOLTAGE!" When the plug connector is disconnected the ingress of dirt into the inner areas (i.e. the areas, which are not accessible in the plugged-in condition) must be prevented.

The sensor must not be mechanically damaged.

Sliding contact discharges must be avoided.

Terminal connection: Minimum conductor cross-section: 0.5 mm², maximum conductor cross-section: 2.5 mm². The ends of the conductor must be provided with cable sleeves.

The cable entry must be such, that no tension load or twist is applied to the cable

The protection category must be in accordance with EN 60529 and as stated in the data sheet. The cable entry must be designed so that there are no sharp edges to damage the cable and impair the level of protection of the sensor. The cable entry must be in accordance with the relevant European standard for industrial cable and lead entries.. In addition, in the case of flexible leads, the points of entry of the cable must be rounded off over an angle of at least 75°, with a radius (R), which is at least one quarter of the maximum permissible cable diameter for the entry, but not greater than 3 mm.