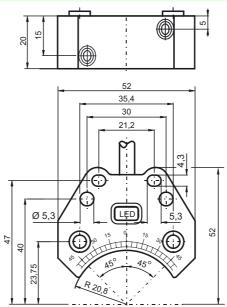
# Inductive proximity switches

For installation in housing Direct mounting on standard actuators Satisfies machinery directive



# CE

General specifications	
Switching element function	PNP Dual Make function
Rated operating distance sn	3 mm
Installation	embeddable
Output polarity	DC
Assured operating distance sa	0 2.43 mm
Reduction factor r <sub>Al</sub>	0.5
Reduction factor r <sub>Cu</sub>	0.4
Reduction factor r <sub>V2A</sub>	1
Reduction factor r <sub>St37</sub>	1.1
Nominal ratings	
Operating voltage UB	10 30 V
Switching frequency f	0 500 Hz
Hysteresis H	typ. 5 %
Reverse polarity protection	all connections
Short-circuit protection	pulsing
Voltage drop U <sub>d</sub>	$\leq$ 3 V
Design data	
Operating current IL	0 200 mA
Off-state current Ir	0 0.5 mA typ. 0.1 μA at 25 °C
No-load supply current I0	$\leq$ 25 mA
Operating voltage display	LED, green
Indication of the switching state	LED, yellow
Standard conformity	
EMC in accordance with	IEC / EN 60947-5-2:2004
Standards	IEC / EN 60947-5-2:2004
Ambient conditions	
Ambient temperature	-25 70 °C (248 343 K)
Storage temperature	-40 85 °C (233 358 K)
Mechanical specifications	
Connection type	5 m, PVC cable
Core cross-section	0.75 mm <sup>2</sup>
Housing material	PBT
Sensing face	РВТ
Protection degree	IP67
Note	Mounted on mechanical drive
General information	
Use in the hazardous area	see instruction manuals
Category	3D

### Connection type:

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E8		
Γτ		1/BN
	l_≾∟	4 / BK
ΙΨľ	)"	2/WH
		<u>3/BUC, L</u>

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## Inductive 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 I<sub>L</sub>

Maximum operating voltage UBmax

Maximum heating (Temperature rise)

at U<sub>Bmax</sub>=30 V, I<sub>L</sub>=200 mA at U<sub>Bmax</sub>=30 V, I<sub>L</sub>=100 mA at U<sub>Bmax</sub>=30 V, I<sub>L</sub>=50 mA at U<sub>Bmax</sub>=30 V, I<sub>L</sub>=25 mA Protection from mechanical danger

Protection of the connection cable

### 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

CE

⟨ы⟩ || 3D |P67 T 122 °C X

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 goal must be observed.

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 the following list.

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<sub>L</sub> and the max. operating voltage U<sub>Bmax</sub>. 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.

52 °C

40 °C

35 °C

34 °C

The sensor must not be mechanically damaged.

The connection cable must be prevented from being subjected to tension and torsional loading.

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