

Control Drawing

HAZARDOUS (CLASSIFIED) LOCATION

Class I, Division 1, Group A, B, C, D, T4...T6
Class II, Division 1, Group E, F, G, T4
Class I, Zone 0 AEx ia IIC T4 ... T6 Ga
Zone 20 AEx ia IIIC T135 °C Da
Ex ia IIC T4 ... T6 Ga
Ex ia IIIC T135 °C Da

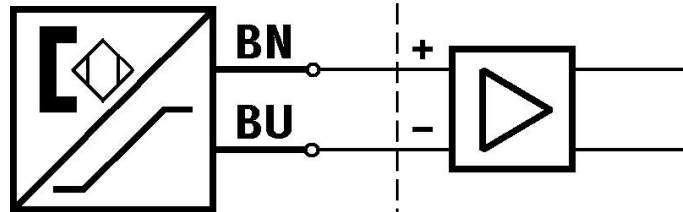
Proximity Switch SDBT-MS-20NL-ZN-E-a-LE-EX6
("a": the numerical values "0.1 to 30.0")

Entity parameters:

$U_i = 28 \text{ V}$
 $I_i = 250 \text{ mA}$
 $P_i (T4) = 350 \text{ mW}$
 $P_i (T6) = 72 \text{ mW}$
 $C_i = 79 \text{ nF}$
 $L_i = 30 \text{ }\mu\text{H}$

Permissible ambient temperature:

$-40^\circ\text{C} \leq T_a \leq +85^\circ\text{C}$ (T4, IIIC)
 $-40^\circ\text{C} \leq T_a \leq +45^\circ\text{C}$ (T6)



NON-HAZARDOUS (UNCLASSIFIED) LOCATION

Certified intrinsically safe amplifier circuit
Any device appropriate for connection to associated apparatus.

Associated apparatus with entity parameters:

$U_o \leq U_i$
 $I_o \leq I_i$
 $P_o \leq P_i$
 $C_o \geq C_i + C_{\text{cable}}$
 $L_o \geq L_i + L_{\text{cable}}$

Condition of Safe Use:

- 1) If used at ambient temperatures below -20°C , the sensor including the connection cable has to be installed in a protective manner against mechanical stress and the cable has to be fixed.
- 2) When used in areas that there is a risk of dust explosions, the permanently connected connection cable must be protected against electrostatic charging caused by dust passing by .

Notes:

- 1) Installation must be in accordance with National Electric Code (NFPA 70, Article 504) and ANSI/ISA-RP 12.6 or Section 18 of the Canadian Electrical Code for installations in Canada.
- 2) Control equipment must not use or generate more than 250 V rms or dc with respect to earth.

MS-Word Document

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				Type SDBT-MS-20NL-CONTR-DRW			FESTO Sheet: 1 / 1
	Date	Name	Material				
signed	2024-06-14	GIMA					
checked	2024-11-07	FAGR					
approved	2024-11-12	GTS	Made of Part-No:				Material-No:
Scale:	Designation: ZERTIFIKAT					Doc-Type:	8214162
Certificate						DRW	Document-No: 17119083