



## Inductive Sensors

Series 20 - NPN - StEx - ATEX      Series 10 - PNP - StEx - ATEX

Housing M 12 x 1

- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Sensing distance  $S_n$  2 mm

DMT 01 ATEX E 157

IECEX BVS 07.0015

Ex II 2 G Ex mb IIC T4 Gb

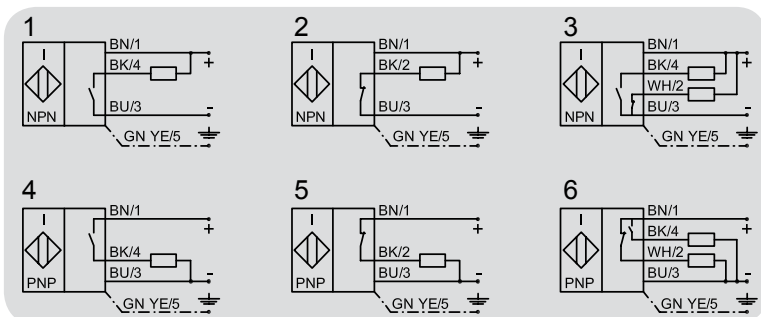
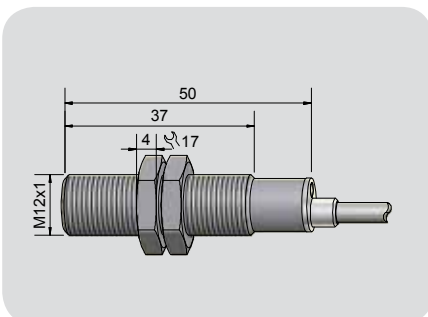
Ex mb IIC T4 Gb

Ex II 1/2 D Ex ta/tb IIIC T101°C Da/Db

Ex ta/tb IIIC T101°C Da/Db



| Technical data                          | Flush mountable                          |
|-----------------------------------------|------------------------------------------|
| Operating distance $S_n$                | 2 mm                                     |
| Electrical version                      | 3-wire DC                                |
| Output                                  | Normally open                            |
| Type NPN                                | IAS-20-A12-S-StEx                        |
| Art.-No.                                | IA 0138                                  |
| Connection diagram No.                  | 1                                        |
| Type PNP                                | IAS-10-A12-S-StEx                        |
| Art.-No.                                | IA 0111                                  |
| Connection diagram No.                  | 4                                        |
| Operating voltage ( $U_B$ )             | 10...30 V DC                             |
| Voltage drop max. ( $U_d$ )             | $\leq 2.5$ V                             |
| Permitted residual ripple max.          | 10 %                                     |
| Operating current ( $I_o$ )             | 0...150 mA                               |
| No-load current ( $I_o$ )               | Typ. 15 mA                               |
| Frequency of operating cycles max.      | 2 kHz                                    |
| Permitted ambient temperature           | -20...+90 °C                             |
| LED-display                             | Yellow                                   |
| Protective circuit                      | Built-in                                 |
| Degree of protection IEC 60529          | IP 67                                    |
| Norm                                    | EN 60 947-5-2                            |
| Connection cable                        | 2 m, PVC, 4 x 0.14 mm <sup>2</sup>       |
| Housing material                        | Stainless steel VA No. 1.4305 / AISI 303 |
| Active surface                          | PTFE (FDA 21 CFR 177.1550)               |
| Lid                                     | PC (FDA 21 CFR 177.1580)                 |
| Accessories (delivered with the sensor) | 2 nuts M 12 x 1                          |



Made in Germany

All specifications are subject to change without notice. (09/2016)