



Certificate:



## Transistor Amplifier

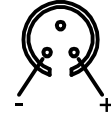
Series - NPN

Series - PNP

- For connection to NAMUR - Sensors of Series 30 and 40
- Not permitted for use in Ex area

Sensor operating voltage  $U_s \leq 6 \text{ V DC}$

Operating current  $I_s = 1 \dots 3 \text{ mA}$

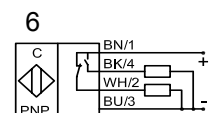
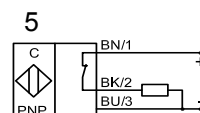
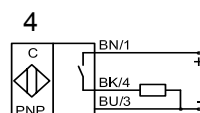
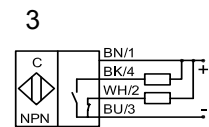
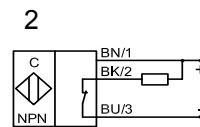
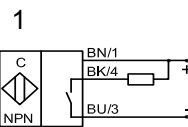
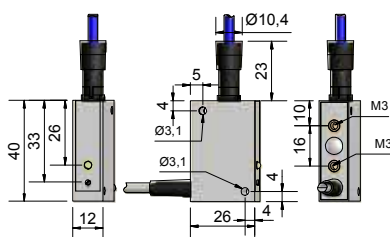


Plug pin connection  
View: soldering side

### Technical data

|   |                                    |
|---|------------------------------------|
| Electrical version                              | 4-wire DC                          |
| Output  | Antivalent (NO + NC)               |
| <b>Type NPN</b>                                 | <b>TS-120-NPN-A</b>                |
| <b>Art.-No.</b>                                 | <b>500 150</b>                     |
| Connection diagram No.                          | 3                                  |
| <b>Type PNP</b>                                 | <b>TS-120-PNP-A</b>                |
| <b>Art.-No.</b>                                 | <b>500 350</b>                     |
| Connection diagram No.                          | 6                                  |
| Operating voltage ( $U_b$ )                     | 10...35 V DC                       |
| Output current max. ( $I_o$ )                   | 2 x 250 mA                         |
| Voltage drop max. ( $U_o$ )                     | $\leq 2.0 \text{ V}$               |
| Permitted residual ripple max.                  | 10 %                               |
| No-load current ( $I_o$ )                       | Typ. 10 mA                         |
| Frequency of operating cycles max.              | 2 kHz (dependent on Sensor)        |
| Permitted ambient temperature                   | -25...+70 °C                       |
| LED-display                                     | Green / yellow                     |
| Protective circuit                              | Built-in                           |
| Degree of protection IEC 60529                  | IP 65                              |
| Norm  | EN 60947-5-2                       |
| Connection cable                                | 2 m, PVC, 4 x 0.14 mm <sup>2</sup> |
| Housing material                                | PA 6.6                             |
| <b>Accessories</b> (is delivered with the unit) | Female connector                   |

All specifications are subject to change without notice. (06/2014)



**Made in Germany**