



**Capacitive Sensors**  
**Series 70 - NPN**  
**Series 80 - PNP**

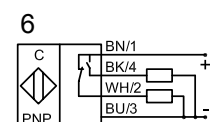
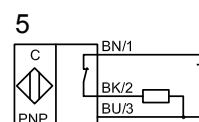
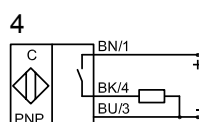
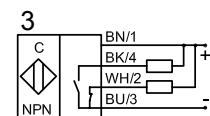
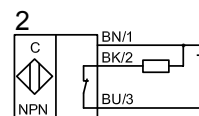
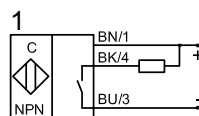
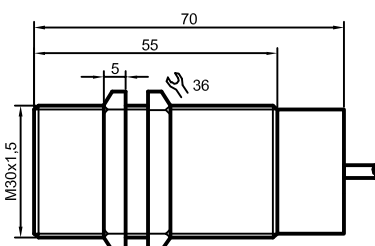
- Housing M 30 x 1.5
- Housing material: Brass
- Sensing distance 2...20 mm adjustable

Certificate:



| Technical data                            | Flush mountable                    | Flush mountable                   |
|---|------------------------------------|-----------------------------------|
| Operating distance $S_n$                  | 10 mm                              | 10 mm                             |
| Operating distance min. / max. adjustable | 2...20 mm                          | 2...20 mm                         |
| Electrical version                        | 3-wire DC                          | 4-wire DC                         |
| Output                                    | Normally open (NO)                 | Antivalent                        |
| <b>Type NPN</b>                           | <b>KAS-70-A14-S-NL</b>             | <b>KAS-70-A14-A-NL</b>            |
| <b>Art.-No.</b>                           | <b>KA 0664</b>                     | <b>KA 0719</b>                    |
| Connection diagram No.                    | 1                                  | 3                                 |
| <b>Type PNP</b>                           | <b>KAS-80-A14-S-NL</b>             | <b>KAS-80-A14-A-NL</b>            |
| <b>Art.-No.</b>                           | <b>KA 0663</b>                     | <b>KA 0665</b>                    |
| Connection diagram No.                    | 4                                  | 6                                 |
| Operating voltage ( $U_B$ )               | 12...30 V DC                       | 12...30 V DC                      |
| Output current max. ( $I_o$ )             | 200 mA                             | 2 x 200 mA                        |
| Voltage drop max. ( $U_d$ )               | ≤ 2.0 V                            | ≤ 2.0 V                           |
| Permitted residual ripple max.            | 5 %                                | 5 %                               |
| No-load current ( $I_o$ )                 | < 15 mA                            | < 15 mA                           |
| Frequency of operating cycles max.        | 150 Hz                             | 150 Hz                            |
| Permitted ambient temperature             | -25...+70 °C                       | -25...+70 °C                      |
| LED-display                               | Yellow                             | Yellow                            |
| Protective circuit                        | Built-in                           | Built-in                          |
| Degree of protection IEC 60529            | IP 67                              | IP 67                             |
| Norm                                      | EN 60947-5-2                       | EN 60947-5-2                      |
| Connection                                | 2 m, PVC, 3 x 0.75 mm <sup>2</sup> | 2 m, PVC, 4 x 0.5 mm <sup>2</sup> |
| Housing material                          | Brass                              | Brass                             |
| Active surface                            | PA / PPO                           | PA / PPO                          |
| Lid                                       | PA / PPO                           | PA / PPO                          |

All specifications are subject to change without notice. (01.02.2010)



**Made in Germany**