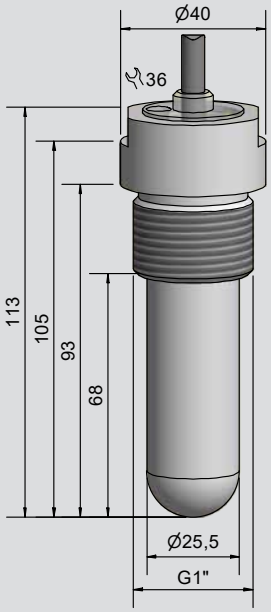


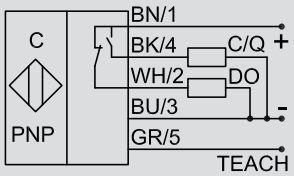
**Capacitive Sensors**
**Series 80 - PNP**
**Article number: KA1810**
**Description: KAS-80-26/113-A-G1-PTFE-IOL-Z05-ETW-HP-2G-1/2D, ATEX**

- Capacitive Sensor with hemispherical active surface for level control of products with a dielectric constant εr as of 1,1. Products can be: Bulk material, like plastic granules, powder, etc. as well as liquids or pasty materials.
- For use in areas with the risk of gas explosion, zone 1
- For use in areas with the risk of dust explosion, zone 20
- Housing material: PTFE (FDA 21 CFR 177.1550)
- Special version with flange. Sealing can be made with a gasket or PTFE-tape (not delivered with the sensor)
- ETW (EasyTeach by Wire) = Sensitivity adjustment is done by connecting a wire




**Technical data**

| | |
|---|---|
| Mounting | Non-flush mountable |
| Operating distance ($S_n$) | Product-contacting / medium-dependent adjustable |
| Operating distance min. / max. adjustable | 0...20 mm |
| Sensitivity adjustment | ETW |
| Output function | PNP, antivalent |
| Operating voltage ($U_B$) | 10...30 V DC |
| Voltage drop max. ($U_d$) | ≤ 2.0 V |
| Permitted residual ripple max. | 10 % |
| Output current max. ($I_e$) | 2 x 0…150 mA |
| No-load current ($I_o$) | Typ. 15 mA |
| Frequency of operating cycles max. | 50 Hz |
| Permitted ambient temperature | -20...+70 °C |
| LED-display | Green / yellow |
| Protective circuit | Built-in |
| Degree of protection IEC 60529 | IP 67 |
| Norm | EN 60947-5-2 |
| Connection | Cable, 5 m, PVC, 5 x 0.34 mm² |
| Housing material | PTFE (FDA 21 CFR 177.1550) |
| Active surface | PTFE (FDA 21 CFR 177.1550) |
| Lid | PC |
| Housing size / Process connection | G 1” |
| Media optimized | Yes |
| Quattro-Protect | Yes |
| IO-Link Device ID | 3d/000003h |
| ATEX certificate | CSANe 26ATEX1156X |
| ATEX Product marking Gas | Ex II 2G Ex mb Ex IIC T4 Gb |
| ATEX Product marking Dust | Ex II 1/2 D Ex ta/tb Ex IIIC $T_{200}$101°C Da/Db |
| IECEx certificate | IECEx CSA 26.0054X |
| IECEx Product marking Gas | Ex mb IIC T4 Gb |
| IECEx Product marking Dust | Ex ta/tb IIIC $T_{200}$101°C Da/Db |
| MTTF (average operating time until failure) | 272,63 years |
| | Made in Germany |




All specifications are subject to change without notice. (19.11.2026)