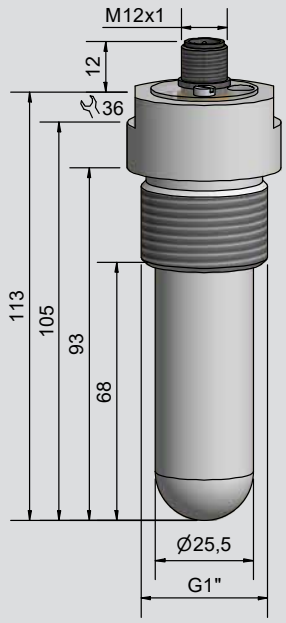
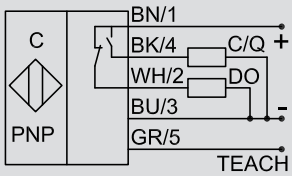


Capacitive Sensors
Series 80 - PNP
Article number: KA1809
Description: KAS-80-26/113-A-G1-PTFE-IOL-Y10-ETW-HP-1/2D, ATEX

- 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	Flange connector M 12 x 1 (A-coded)
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 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 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. (23.10.2026)