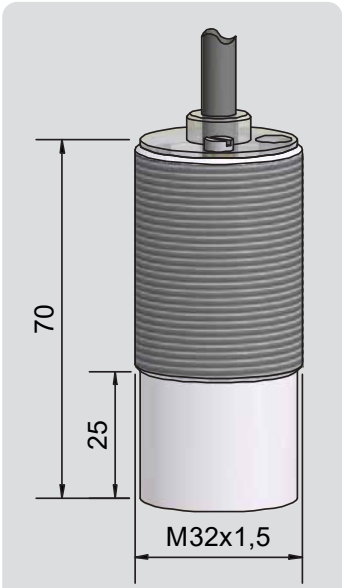
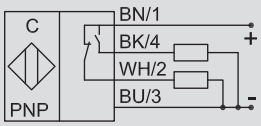
Capacitive sensors
Series 80 - PNP - ATEX
Article number KA1719
Description KAS-80-35-A-M32-PTFE-FG-Z03-1-2G-1/2D

- Capacitive sensor for level and position control
- For use in areas with the risk of dust explosion, zone 20
- For use in areas with the risk of gas explosion, zone 1
- Housing material: PTFE (FDA compliant and EC 1935/2004 compliant)
- Ideal for detection of chemically aggressive media
- Suitable for food and pharmaceutical applications





Technical data

Mounting	Non-flush mountable
Operating distance S_n	20 mm
Operating distance min. / max. adjustable	3...30 mm
Sensitivity adjustment	Potentiometer
Output function	PNP, Antivalent
Operating voltage (U_B)	10...30 V DC
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	5 %
Operating current (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 (with sealed potentiometer screw)
Norm	EN 60947-5-2
Connection	Cable, 3 m, PVC, 4 x 0.5 mm²
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550), according to (EC) No. 1935/2004
Lid	PC (FDA 21 CFR 177.1580)
Housing size / Process connection	M 32 x 1.5
Media optimized	Yes
Quattro Protect	Yes
UL/CSA certificate	Yes
ATEX certificate	DMT 01 ATEX E 157
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 T101°C Da/Db
IECEx certificate	IECEx BVS 07.0015
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 in Years)	786.6 Years
Documents (not included in delivery)	Declaration of Conformity (EC) No. 1935/2004, # 100035
	Made in Germany

All specifications are subject to change without notice. (17.07.2023)