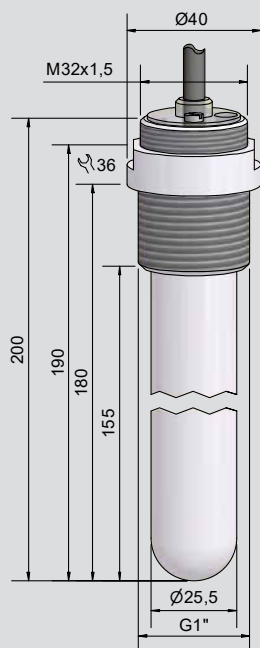**Capacitive Sensors**
Series 80 - PNP
Article number: KA0444
Description: KAS-80-26/200-A-G1-PTFE-Z03-1-HP-2G-1/2D

- 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, cereals, 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: G 1"
- 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)

CE RoHS Compliant ATEX (Ex) IECEx PTFE FDA 21 CFR 177.1550 conform High chemical resitance

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	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.	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 (with sealed potentiometer screw)
Norm	EN 60947-5-2
Connection	Cable, 3 m, PVC, 4 x 0.5 mm^2
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
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)	272,63 years
Accessories (not delivered with the sensor)	Sealing kit M32 / PTFE # 196301
	Made in Germany

Ø40, M32x1,5, 36, 200, 190, 180, 155, Ø25,5, G1"

C PNP
BN/1
BK/4 +
WH/2
BU/3 -