



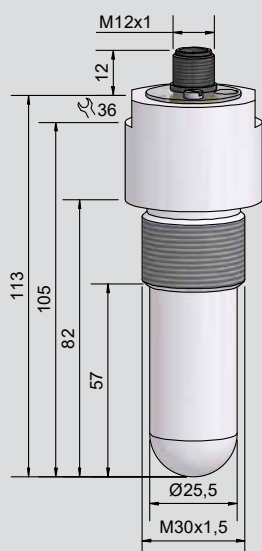
Capacitive Sensors

Series 80 - PNP - ATEX

Article number: KA1444

Description: KAS-80-26/113-A-M30-PTFE-Y5-1-HP-3G-1/2D

- Capacitive Sensor with hemispherical active surface for level control of products with a dielectric constant ϵ_r 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 2
- For use in areas with the risk of dust explosion, zone 20
- With flange connector M 12 x 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)



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 (I_o)	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	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 (FDA 21 CFR 177.2415)
Housing size / Process connection	M 30 x 1.5
Media optimized	Yes
Quattro-Protect	Yes
ATEX certificate	With manufacturer certificate
ATEX Product marking Gas	Ex II 3G Ex nA IIC T6 Gc X
ATEX certificate	DMT 01 ATEX E157
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 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)	Protective clip
Matching connectors (not delivered with the sensor)	Female connector M 12 x 1, DC, 4 x 0.34 mm ² , 5 m, angled, # 193391 Female connector M 12 x 1, DC, 4 x 0.34 mm ² , 5 m, straight, # 193392
Made in Germany	

