



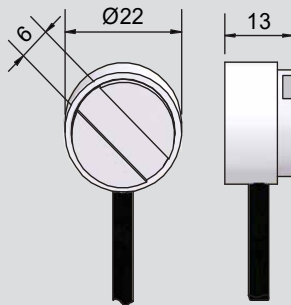
Capacitive sensors

Series 80 - PNP

Article number KA1781

Description KAS-80-22/13-P-D22-PTFE-Y5C-ET-3G-3D

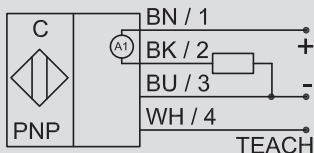
- Capacitive sensor for level control of liquids, very suitable for a measurement through non-metallic container walls.
- For use in areas with the risk of dust explosion, zone 22
- For use in areas with the risk of gas explosion, zone 2
- Output function normally open and normally closed programmable
- Sensitivity adjustment with ETM (sensitivity adjustment is made by magnet on the teach spot) or ETW (sensitivity adjustment is made by connecting the teach line to U_B)
- Flat housing: 13 mm, for limited installation space



Technical data

Mounting	Flush mountable
Operating distance (S_n)	5 mm
Operating distance min. / max. adjustable	0...10 mm
Sensitivity adjustment	ETM / ETW
Output function	PNP, normally open / normally closed programmable
Operating voltage (U_B)	10...30 V DC
Voltage drop max. (U_d)	≤ 2.0 V
Permitted residual ripple max.	10 %
Operating current (I_e)	1 x 0...150 mA
No-load current (I_o)	Typ. 6 mA
Frequency of operating cycles max.	100 Hz
Permitted ambient temperature	-25...+70 °C
LED-display	Green / Yellow
Protective circuit	Built-in
Degree of protection IEC 60529	IP 67
Norm	EN 60947-5-2
Connection	PUR cable, 0.15 m, 4 x 0.14 mm ² with plug M12x1
Housing material	PTFE (FDA 21 CFR 177.1550)
Active surface	PTFE (FDA 21 CFR 177.1550)
Housing size	Ø 22 mm
ATEX certificate	With manufacturer certificate
ATEX Product marking Gas	Ex II 3G Ex nA IIC T6 Gc X
ATEX Product marking Dust	Ex II 3D Ex mc IIIC T101°C Dc IP67 X
MTTF (average operating time until failure)	529.1 Years
Accessories (delivered with the sensor)	Protective clip, teach magnet
Matching connectors (not delivered with the sensor)	# 193391 Female connector M 12 x 1, DC, 4 x 0.34 mm ² , 5 m, angled # 193392 Female connector M 12 x 1, DC, 4 x 0.34 mm ² , 5 m, straight

Made in Germany



- (A1) Output
- Normally open
- Normally closed