



## Capacitive Sensors

### Series 80 - PNP

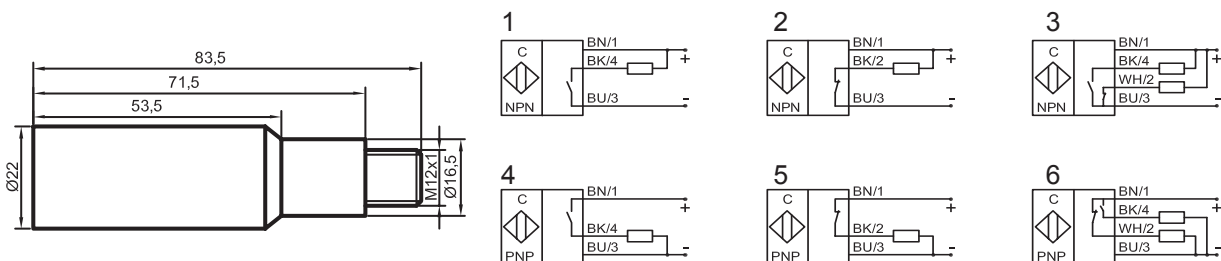
Housing  $\varnothing = 22$  mm

- Housing material: Brass
- Sensing distance 0.5...15 mm adjustable
- With flange connector M 12 x 1

Certificate:



Technical data	Flush mountable	Flush mountable
Operating distance $S_n$	8 mm	8 mm
Operating distance min. / max. adjustable	0.5...15 mm	0.5...15 mm
Electrical version	3-pin DC	4-pin DC
Output	Normally closed	Antivalent (NO + NC)
<b>Type NPN</b>		
<b>Art.-No.</b>		
Connection diagram No..		
<b>Type PNP</b>	<b>KAS-80-20-S-Y3</b>	<b>KAS-80-20-A-Y3</b>
<b>Art.-No.</b>	<b>811 820</b>	<b>KA 0104</b>
Connection diagram No.	4	6
Operating voltage ( $U_B$ )	10...35 V DC	10...35 V DC
Output current max. ( $I_o$ )	250 mA	2 x 250 mA
Load current min.	-	-
Voltage drop max. ( $U_d$ )	$\leq 2.0$ V	$\leq 2.0$ V
Permitted residual ripple max.	10 %	10 %
No-load current ( $I_o$ )	Typ. 15 mA	Typ. 15 mA
Frequency of operating cycles max.	100 Hz	100 Hz
Permitted ambient temperature	-25...+70 °C	-25...+70 °C
LED-display	Yellow	Yellow
Protective circuit	Built-in	Built-in
Degree of protection IEC 60529	IP 67	IP 67
Norm	EN 60947-5-2	EN 60947-5-2
Connection	Flange connector M 12 x 1	Flange connector M 12 x 1
Housing material	Brass	Brass
Active surface	PTFE (FDA 21 CFR 177.1550)	PTFE (FDA 21 CFR 177.1550)
Lid	PA / PPO	PA / PPO



**Made in Germany**

All specifications are subject to change without notice. (23.09.2009)