

Capacitive proximity switches

KI0042


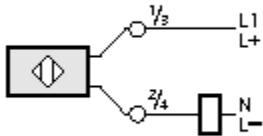
KIE2015-FBOA/NI/3D
Plastic thread M30 x 1.5
Terminals

ATEX approval
Group II, category 3D
Increased immunity to conducted
radio frequency interference

Sensing range 15mm [nf]
adjustable 3...15 mm
non-flush mountable



Electrical design	AC/DC
Output	normally open / closed programmable
Operating voltage [V]	20...250 AC/DC
Current rating (continuous) [mA]	250 (...+40°C) / 130 (...+60°C) *
Current rating (peak) [mA]	î: 1500 (20ms / 0.5Hz)
Minimum load current [mA]	5
Short-circuit protection	no
Reverse polarity protection	no
overload protection	no
Voltage drop [V]	< 10 AC / < 8 DC
Leakage current [mA]	< 2.5 (250 V AC) / < 1.7 (110 V AC) / < 1.5 (24 V DC)
Real sensing range [mm]	15 ± 10 %
Operating distance [mm]	0...12.1
Switch-point drift [% / Sr]	-15...15
Hysteresis [% / Sr]	1...15
Switching frequency [Hz]	25 AC / 50 DC
Correction factors	water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2

Operating temperature [°C]	-20...60 **)
Protection	IP 65 ☐
EMC	IEC 1000-4-2 / EN 61000-4-2: 8 kV CD / 15 kV AD IEC 1000-4-3 / EN 61000-4-3: 10 V/m, 80...1000 MHz IEC 1000-4-4 / EN 61000-4-4: 4 kV coupling pliers IEC 1000-4-6 / EN 61000-4-6: 10 V / 0.15...80 MHz
Marking of the unit	 II 3D IP 65 T 80 °C X
Housing material	PBT; PA
Function display Switching status LED	yellow
Connection	terminals up to 2.5 mm ² ; cable diameter 5...13 mm, cable gland M20 x 1.5
Wiring	
tightening torque for cable gland [Nm]	3.5
Remarks	*) 250 mA (...50 °C) / 200 mA (...70 °C) when used outside the hazardous area **) -25...70 °C when used outside the hazardous area
Accessories (included)	2 lock nuts, screwdriver