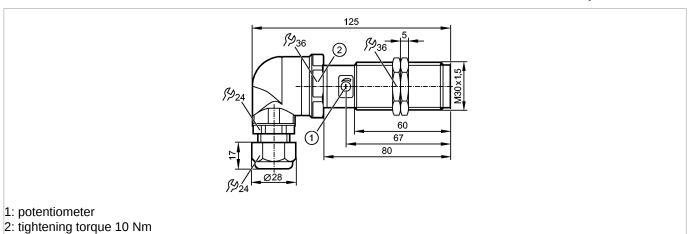
## efector15°

## **KI001A**

KIE2150NFBOA/3D Capacitive sensors



€

Environment

Protection

Ambient temperature

[°C]

Made in Germany

CE		
Product characteristics		
Capacitive sensor		
Plastic thread M30 x 1.5		
Terminals		
ATEX approval		
Group II, category 3D		
Sensing range 15 mm; adju	stable; [nf	non-flush mountable
Electrical data		
Electrical design		AC/DC
Operating voltage	[V]	20250 DC / 30250 AC
Protection class		II
Reverse polarity protection		yes
Outputs		
Output function		normally open / closed programmable
Voltage drop	[V]	< 10 AC / < 8 DC
Minimum load current	[mA]	5
Leakage current	[mA]	< 2.5 (250 V AC) / < 1.7 (110 V AC) / < 1.5 (24 V DC)
Current rating		
- Current rating (continuous	) [mA]	100 (150 bei <40°C)
- Current rating (peak)	[mA]	î: 1000 (20ms / 0.5Hz)
Short-circuit proof		no
Overload protection		no
Switching frequency	[Hz]	10 *
Range		
Sensing range	[mm]	15, adjustable
Real sensing range (Sr)	[mm]	15 ± 10 %
Accuracy / deviations		
Correction factors		water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2
Hysteresis	[% of Sr]	115
Switch-point drift	[% of Sr]	-2020

-20...60

IP 65 / IP 67

## efector15°



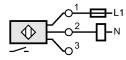


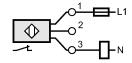
Tests / approvals				
Marking of the unit				
EMC		EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-5 Surge: EN 61000-4-6 HF conducted: EN 55011:	kV / 8 kV AD 3 V/m 2 kV 1 kV (line to line, Ri: 20hm) 3 V class B	
MTTF	[Years]		305	
Mechanical data				
Mounting		non-flus	sh mountable	
Housing materials		PI	BT; PA	
Weight	[kg]		0.159	
Displays / operating elen	nents			
Output status indication	LED	y	vellow	
Electrical connection				

terminals 0.34 up to 2.5 mm $^2$ ; cable diameter 5...9 mm, cable gland M20 x 1.5

## Wiring

Connection





Note: miniature fuse to IEC60127-2 sheet 1,

≤ 2 A (fast acting)

Place the fuse outside the hazardous area.

Accessories (included)		2 lock nuts
Remarks		
Remarks		*) only for resistive loads; 2 Hz for utilisation category AC-140 Recommendation: check the unit for reliable function after a short circuit.
Pack quantity	[piece]	1

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