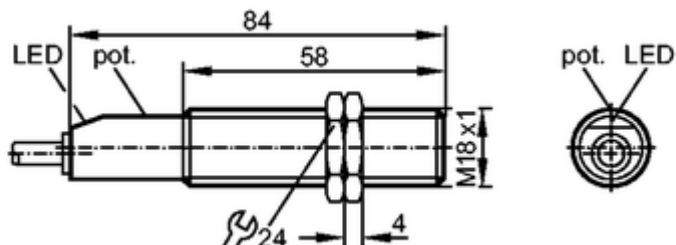


KG5079

KG-2080-N/6M/1D/1G

Capacitive sensors

**Product characteristics**

Capacitive sensor
Plastic thread M18 x 1
Cable
ATEX approval
Group II, category 1D/1G
Sensing range 8 mm; adjustable; [nf] non-flush mountable

Electrical data

Operating voltage [V]	7.5...15 DC
Nominal voltage [V]	8.2 DC; (1k Ω)
Current consumption [mA]	< 1 disabled; (> 2.2 mA enabled)
Protection class	II

Outputs

Output function	Normally closed
Switching frequency [Hz]	4

Range

Sensing range [mm]	8, adjustable
Real sensing range (Sr) [mm]	8 \pm 10 %



Accuracy / deviations

Correction factors	water = 1 / glass approx. 0.4 / ceramics approx. 0.2 / PVC approx. 0.2
Hysteresis [% of Sr]	1...15
Switch-point drift [% of Sr]	-15...15

Environment

Ambient temperature [°C]	-20...60
Protection	IP 67

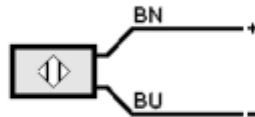
Tests / approvals

Approval	BVS 13 ATEX E009 X IECEX BVS 13.0015 X								
Marking of the unit	 II 1G Ex ia IIB T4 Ga  II 1D Ex ia IIIC T135°C Da								
EMC	<table border="1"> <tr><td>EN 61000-4-2 ESD:</td><td>- kV CD / 8 kV AD</td></tr> <tr><td>EN 61000-4-3 HF radiated:</td><td>3 V/m</td></tr> <tr><td>EN 61000-4-4 Burst:</td><td>2 kV</td></tr> <tr><td>EN 61000-4-6 HF conducted:</td><td>3 V</td></tr> </table>	EN 61000-4-2 ESD:	- kV CD / 8 kV AD	EN 61000-4-3 HF radiated:	3 V/m	EN 61000-4-4 Burst:	2 kV	EN 61000-4-6 HF conducted:	3 V
EN 61000-4-2 ESD:	- kV CD / 8 kV AD								
EN 61000-4-3 HF radiated:	3 V/m								
EN 61000-4-4 Burst:	2 kV								
EN 61000-4-6 HF conducted:	3 V								

	EN 55011 (Emission):	class B
Shock resistance		EN 60947-5-2
MTTF [Years]		503
Safety classification		
Internal capacitance [nF]		11.5
Internal inductance [μ H]		3
Mechanical data		
Mounting		non-flush mountable
Housing materials		PBT
Weight [kg]		0.326
Displays / operating elements		
Output status indication LED		yellow
Electrical connection		
Connection		PVC cable / 6 m; 2 x 0.5 mm ²

Wiring

Core colours
 BN brown
 BU blue

**Remarks**

Pack quantity [piece]	1
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ifm electronic gmbh • Friedrichstraße 1 • 45128 Essen — We reserve the right to make technical alterations without prior notice. — GB — KG5079 — 05.03.2013