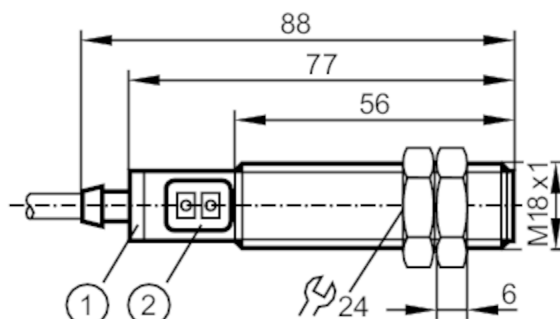


Capacitive sensor

KG-3080NFAKGS2T/5M

Article no longer available - archive entry



- 1 LED ring
- 2 programming buttons



Product characteristics

Electrical design	PNP/NPN; (automatic load detection PNP/NPN)
Output function	normally open / normally closed; (selectable)
Sensing range [mm]	8
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 77

Application

Recommended media	conductive media with a dielectric constant > 20
-------------------	--

Electrical data

Operating voltage [V]	10...36 DC
Current consumption [mA]	< 20
Protection class	II
Reverse polarity protection	yes

Outputs

Electrical design	PNP/NPN; (automatic load detection PNP/NPN)
Output function	normally open / normally closed; (selectable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	200
Switching frequency DC [Hz]	10
Short-circuit protection	yes
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Sensing range [mm]	8
Real sensing range Sr [mm]	8 ± 10 %

KG5068



Capacitive sensor

KG-3080NFAKGS2T/5M

Accuracy / deviations		
Correction factor		glass: 0.4 / water: 1 / ceramics: 0.2 / PVC: 0.1
Hysteresis	[% of Sr]	1...15
Switch point drift	[% of Sr]	-20...20
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65; IP 67
Tests / approvals		
EMC	IEC 60947-5-2	
Mechanical data		
Weight	[g]	240
Housing		threaded type
Mounting		non-flush mountable
Dimensions	[mm]	M18 x 1 / L = 77
Thread designation		M18 x 1
Materials		housing: PP white; Sealing: TPE-U; pushbuttons: TPE-U
Displays / operating elements		
Display	switching status	1 x LED ring, yellow cable entry lights translucently
Teach function		yes
Electronic lock		yes
Accessories		
Items supplied		lock nuts: 2
Remarks		
Pack quantity		1 pcs.

KG5068



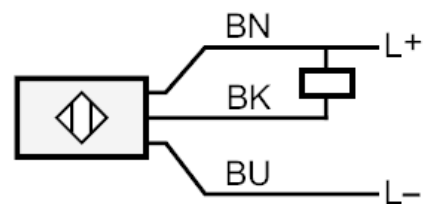
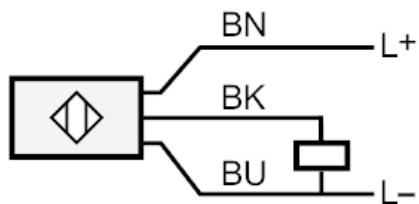
Capacitive sensor

KG-3080NFAKGS2T/5M

Electrical connection

Cable: 5 m, PVC; conduit attachment; 3 x 0.34 mm²

Connection



BK: automatic load detection PNP/NPN
when using a resistive load < 20 kΩ
Core colours :
BK = black
BN = brown
BU = blue