

Limit Switches

GK03

Limit Switch for Bypass Level Indicator

Features / Description

All GK switches have bi-stable reed contacts. They can be mounted in any position around the tube of a magnet-controlled level indicator with stainless steel clamps, however the cable direction should preferably be downward. The magnet system in the float will switch over the contact whenever the switch is passed. This permits an arbitrary arrangement of many switches on the tube surface without the switches disturbing each other. The switch position must be checked before installation; it can be set with a ring magnet or the float. The switch hysteresis depends on the distance to the magnet system in the float and is smallest when the switches are installed closely along the indication rail.

Applications

Limit value measuring on magnetically controlled level indicators

Technical Data

Housing: GK03/GK03L/GK03-EXI:	1,4305 and M16 x1,5 cable gland	
Cable: GK03: GK03-EXI:	Silicone 3x0,5 mm ² or PVC 3x0,34 mm ² , length 1, 3 or 5 m	
GK03L:	PVC 4x0,55 mm ² , length 2 m, other lengths or versions on request	
Protection class:	IP 65	
Switching power: GK03: GK03-EXI:	230 V AC/DC/ 1.0 A / 60 VA/W U _i = 28 V / P _i = 0.5 W I _i = 125 mA C _i = 2 nF L _i = 10 µH	
GK03L:	24 V DC/1.0 A/40 W	
Temperature range: GK03: GK03-EXI: GK03L:	for Si cable: -55 °C...+140 °C -40 °C...+75 °C	for PVC cable: -10 °C...+80 °C -10 °C...+75 °C -10 °C...+80 °C
Option: GK03:	Grounding clip (incl. in case of GK03-EXI)	
Approvals: GK03-EXI:	TÜV 18 ATEX 214370 X / issue 1 details see www.barksdale.de	

When larger contact ratings are needed than the reed contacts allow, suitable relays must be used.

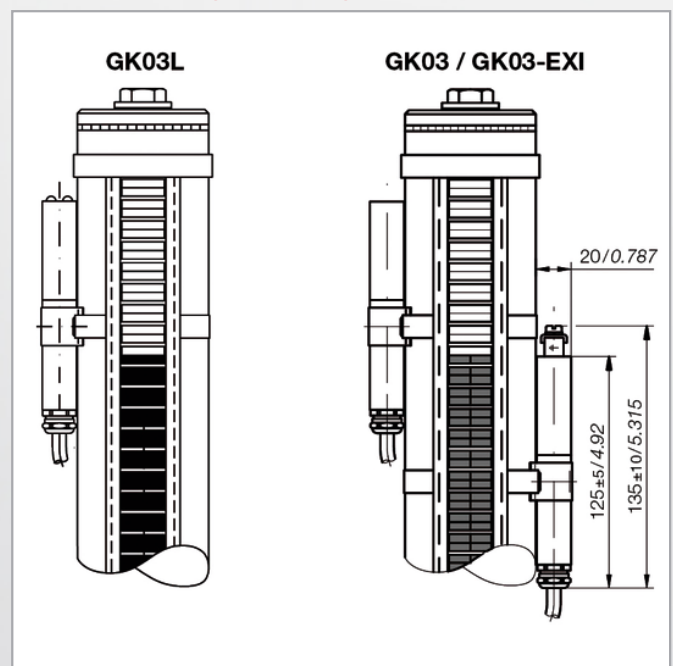
When frequently changing process requirements make a permanent contact position difficult to handle we recommend to order our transmitters with 4 ...20 mA output and separate trip amplifier UAS 3, which enables set point changes by touching a keypad and many additional features.

Order Numbers

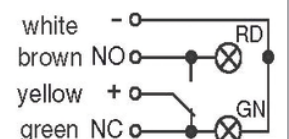
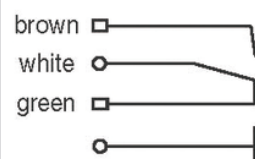
Order No.	Limit Switch
0303-031	GK03 1m PVC cable
0303-028	GK03 1m Si cable
0303-032	GK03 3m PVC cable
0303-029	GK03 3m Si cable
0303-033	GK03 5m PVC cable
0303-030	GK03 5m Si cable
0303-035	GK03-EXI 1m PVC cable
0303-027	GK03-EXI 3m Si cable
0303-036	GK03-EXI 5m PVC cable
0303-038	GK03L 2m PVC cable



Dimensions (mm / inch)



Circuit diagram



RD (red LED) = full
GN (green LED) = empty

Figure 1: Schematic diagram
GK03/GK03-EXI

Figure 2: Schematic
diagram GK03L