

Float switch

Mounting hints, switch behaviour, electrical data, ordering-no. switch module

Product group **719**

Type **010X**

Sheet: 2/2 Revision: 13

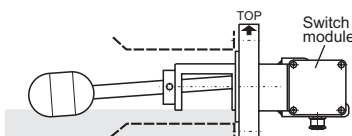
Date: 04/08

Switch behaviour

High alarm when level increases (H)

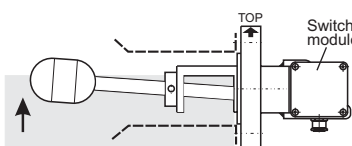
Normal position

Switch mod.	Output
BG190064KLE	brown-blue closed
BG190062EEXM	brown-blue closed
BG190065(NA)HI	Reed switch closed
BG190200SSHI	Prox.switch conducting
BG190200ZNHI	Prox.switch conducting



Alarm position

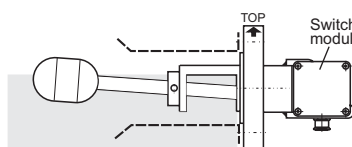
Switch mod.	Output
BG190064KLE	black-blue closed
BG190062EEXM	black-blue closed
BG190065(NA)HI	Reed switch open
BG190200SSHI	Prox.switch currentless
BG190200ZNHI	Prox.switch currentless



Low alarm when level decreases (L)

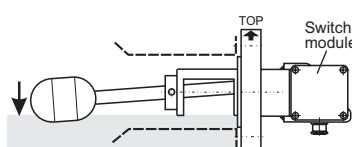
Normal position

Switch mod.	Output
BG190064KLE	brown-blue closed
BG190062EEXM	brown-blue closed
BG190065(NA)LO	Reed switch closed
BG190200SSLO	Prox.switch conducting
BG190200ZNLO	Prox.switch conducting



Alarm position

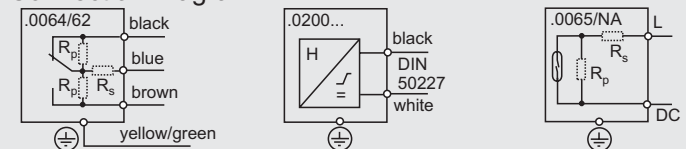
Switch mod.	Output
BG190064KLE	black-blue closed
BG190062EEXM	black-blue closed
BG190065(NA)LO	Reed switch open
BG190200SSLO	Prox.switch currentless
BG190200ZNLO	Prox.switch currentless



Switch module	Ex	Fail safe techn.	Switch type
BG190064KLE	ja*	no	SPDT
BG190062EEXM	EEx m	no	SPDT
BG190065HI/LO	ja*	no	Reed
BG190065NAHI/LO	ja**	no	Reed
BG190200ZNHI/LO	EEx ib	no	prox.switch .N
BG190200SSHI/LO	EEx ia	yes	prox.switch .S

*=passive components, may be operated in Zone 1, component of an intrinsically safe circuit
**=passive components, may be operated in Zone 1, component of a NAMUR circuit

Connection Diagram



Mounting Hints

If installation is planned in a flange stud, the length should not be larger than Lmax (s. sheet 1). Minimal diameter is 2". When mounting pay attention for the 'TOP' marking. Pay attention to H / L or min / max absolutely at the order.

Electrical Data

Switch module	Switch voltage [V=~/~]	Switch current [A=~/~]	Switch power [W/VA]	Switch time [ms]
740				
.0064	200/250	2/2	40/100	50
.0062	200/250	2/2	40/100	50
.0065	200/230	0,5/0,5	10/-	10
.0065NA	8,2/- *)	0,4...2,5 mA/- *)	-/- *)	< 1 *)
.0200...	8,2/- *)	0,4...2,5 mA/- *)	-/- *)	< 1 *)

*) Namur current loop acc. to DIN 50227

For more details see data sheets for Magnetically operated Switches

Ex protection

.0200N (prox. switch): II 2G EEx ib IIC, T4, T5, T6
 $U_i / I_i / P_i / C_i / L_i$: 18 VDC/86 mA/95 mW/230 nF/1 uH
 .0200S (prox. switch): II 2G EEx ia IIC, T6
 $U_i / I_i / P_i / C_i / L_i$: 16 VDC/25 mA/34 mW/30 nF/100 uH
 .0062: II 2G EEx m II, T4, T5, T6

Certificates

Acc. to ATEX 94/9/EG

BG.0200NXX (prox. switch): ZELM 02 ATEX 0083
 BG.0200SXX (prox. switch): PTB 00 ATEX 2049 X
 BG.0062EEXM: ZELM 02 ATEX 0079

Subject to alterations

Ordering-no. switch module

Switch module	Ordering-no.
BG190062EEXM	A
BG190064KLE	B
BG190065LO	C
BG190065NALO	L
BG190065HI	D
BG190065NAHI	M
BG190200SSLO	E
BG190200SSHI	F
BG190200ZNLO	G
BG190200ZNHI	H

PHÖNIX

Messtechnik GmbH
 Salzschröder Straße 13
 D-60386 Frankfurt/M.
 Tel. +49/69/41 67 42 - 20
 Fax +49/69/41 67 42 - 29
 sales@phoenix-mt.com
 www.phoenix-mt.com

