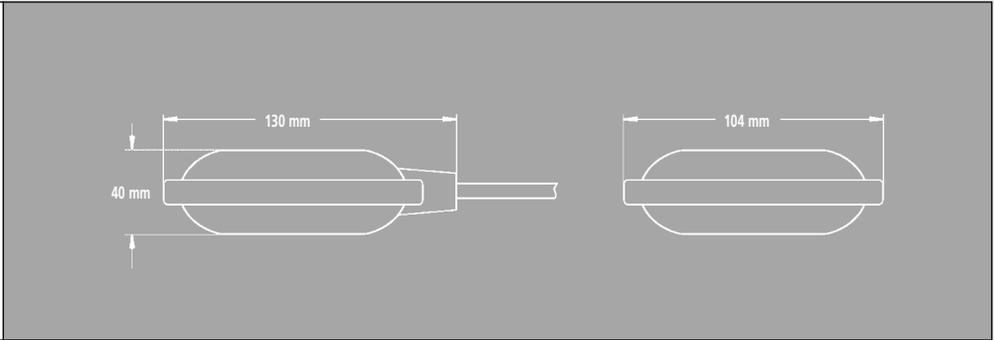


Float switch PSN



Float switches which switch ON or OFF depending on the cable length

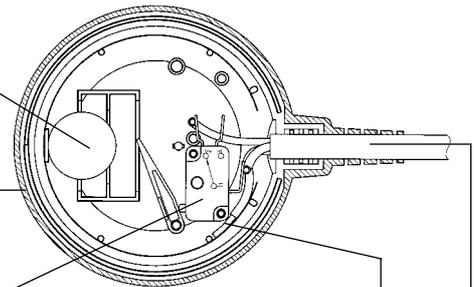


TYPES



PSN...+ST

Description float switches	
PSN-0	Float switches for emptying. On reaching the upper switching threshold the switching mechanism activates the pump. On reaching the lower switching threshold the pump is switched off. This float switch can also be used as run dry protection.
PSN-F	Float switches for filling. On reaching the lower switching threshold, the switching mechanism closes and activates the pump.
PSN-X	Float switches for filling and emptying.
PSN...+ST	Float switch with plug and socket for pump connection.
PSN-0 DB	Float switches for emptying with integrated cable breakage and short-circuit monitoring, with gold flashed contacts.
PSN-X-SP	Float switches for filling and emptying for PLC application and for intrinsically safe circuits, with gold flashed contacts.
KLS Ball Guiding System	The new ball guiding system KLS, within the tolerance range, ensures an even higher switching accuracy.
Perfect Casing	The inner chamber with the switch mechanism and lead are seamlessly enclosed by isolating Polypropylene.
High Quality HR-Foam Floating Body	Physical properties and chemical resistance of the Polypropylene body are extraordinarily high, so that damages due to mechanical impact or chemical influence may be ruled out.
Contact Rating	Motors with a performance of up to 1.1 kW (at 250 V-) may be switched directly.
Protective Conductor Connection acc. to VDE 0631 Part 1 protection class 1 resp. EN 60730-1	A metal shield connected to the protective conductor of the lead ensures additional protection against electrical shock.
Neoprene Insulated Lead	Highly flexible lead acc. to VDE 282 Part 4 resp. HD 22.4 S3 guarantees a long service life.



Float switch PSN



TYPES

- PSN-O / -F / -X
- PSN...+ST
- PSN-O DB
- PSN-X-SP

Order reference	Description	Cable length	Weight (g)	Packing (units)	Part No.
PSN-O 3 m	for emptying	3 m	500	1	234166
PSN-O 5 m		5 m	650	1	234173
PSN-O 10 m		10 m	1000	1	234180
PSN-O 15 m		15 m	1350	1	234197
PSN-O 20 m		20 m	1700	1	234203
PSN-F 3 m	for filling	3 m	500	1	234210
PSN-F 5 m		5 m	650	1	234227
PSN-F 10 m		10 m	1000	1	234234
PSN-F 15 m		15 m	1350	1	234241
PSN-F 20 m		20 m	1700	1	234258
PSN-X 3 m	for filling and emptying	3 m	500	1	234265
PSN-X 5 m	export-version without	5 m	650	1	234272
PSN-X 10 m	protective conductor	10 m	1000	1	234289
PSN-X 15 m		15 m	1350	1	234296
PSN-X 20 m		20 m	1700	1	234302
PSN-O +ST 5 m	Float switch with plug	5 m	750	1	234319
PSN-O +ST 10 m	and socket for	10 m	1100	1	234326
PSN-F +ST 5 m	pump connection	5 m	750	1	234333
PSN-F +ST 10 m		10 m	1100	1	234340
PSN-O DB 5 m	for emptying	5 m	650	1	234357
PSN-O DB 10 m	with integrated cable breakage and short-circuit monitoring, with gold flashed contacts	10 m	-	1	234364
PSN-X-SP 5 m	for filling and emptying for PLC application and for for intrinsically safe circuits, with gold flashed contacts export-version without	5 m	650	1	234371
PSN-X-SP 10 m	protective conductor	10 m	650	1	234388

Float switches for special applications and/or with cables of alternative materials on request.

ACCESSORIES

BG-PS /
IG-PS

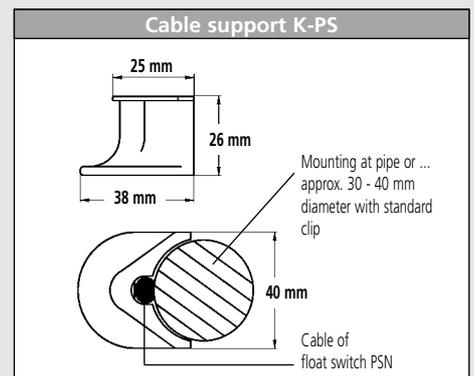
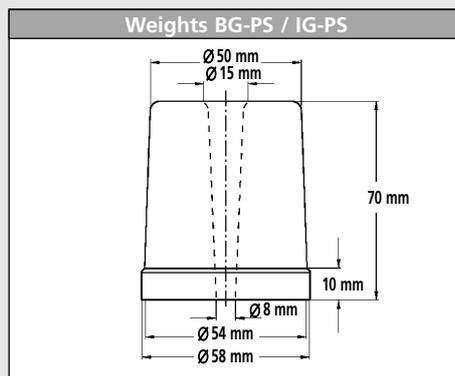


K-PS



Order reference	Description	Packing (units)	Weight (g)	Part No.
BG-PS	Weight for float switch, color of body blue (for free setting of the switching differences)	1	400	236658
IG-PS	for float switch, color of body yellow	1	180	234401
K-PS	Cable support for float switch (with cable clamp and cable support, fixing by means of standard clip)	1	5	234418

DIMENSIONS



Float switch PSN



TECHNICAL DATA

PSN-O/F/X	
Rated operating voltage U_e	250 V ~ 400 V ~
Rated operating current I_e	10 (8) A 10 (4) A
Contact rating	1.1 kW (1.5 PS)
Max. cycles Cycles 50 E3	$\geq 50,000$
Temperature resistance Cable VDE 282 Part 4 12/95 Body	60° C 85° C
Protection watertight, depth 10 m	IP 68
Wire cross sections VDE 0631 Part 1 01/96	3 x 1 mm ²
Lead black	H 07 RN-F

PSN-O DB	
Rated operating voltage U_e	< 30 V-DC
Rated operating current I_e	11 mA (R=2.7K) 2.4 mA (R=12.7K)
Max. cycles Cycles 50 E3	$\geq 50,000$
Temperature resistance Cable VDE 282 T 4 12/95 Body	60° C 85° C
Protection watertight, depth 10 m	IP 68
Wire cross sections VDE 0631 Part 1 01/96	3 x 1 mm ²
Lead black	H 07 RN-F

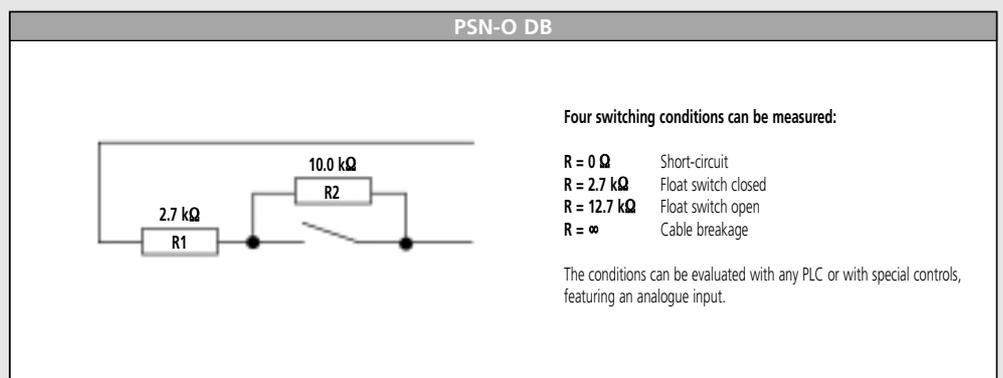
RESISTANCE

Body / Cable

resistance
Acetic acid (hydrous 10 %) · Gasoline · Diesel · Formaldehyde (hydrous 40 %) · Glycerine · Mineral oils · Lactic acid (hydrous 10 %) · Phosphoric acid (hydrous 10 %) · Nitric acid (hydrous 10 %) · Sulphur acid (hydrous 35 %) · Washing powder

limited resistance
Formic acid (hydrous 10 %) · Nitric acid (hydrous 10 %) · Water, chlorous · Hydrogen peroxide

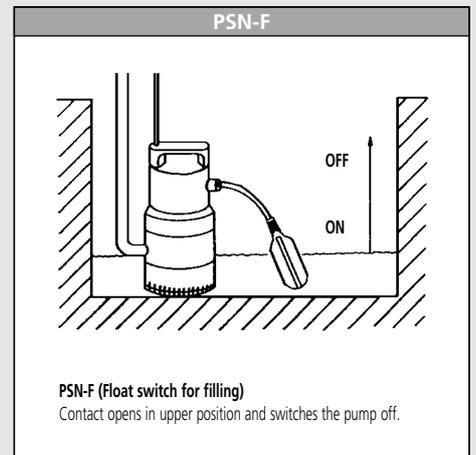
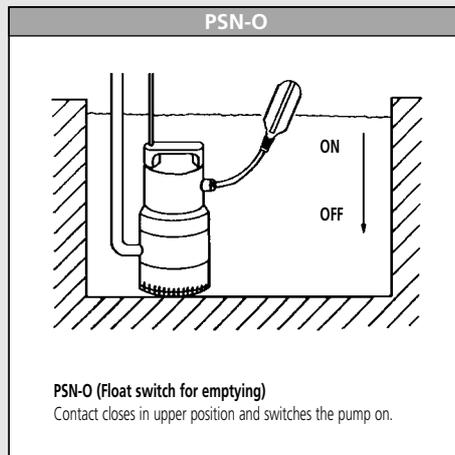
WIRING DIAGRAM



Float switch PSN

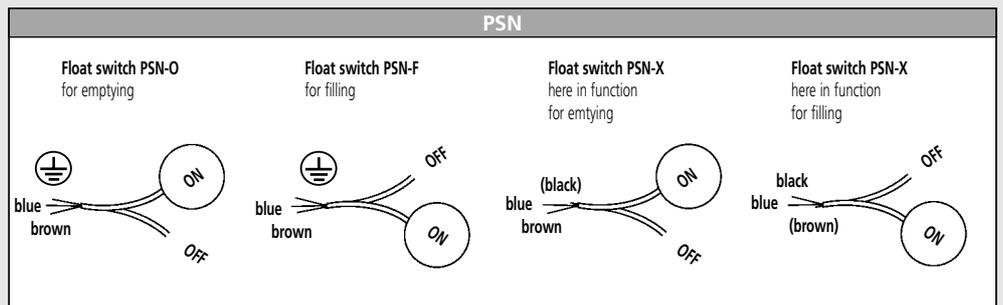


VERSIONS



PSN-X (Float switch for filling and emptying)
Export-version with 1 change-over contact without protective conductor and VDE-Approval mark.

CIRCUIT DIAGRAMS



SWITCHING DIAGRAM

