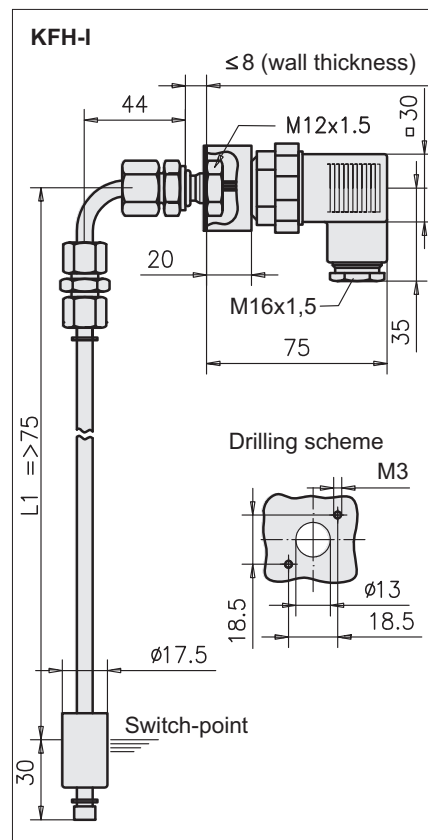
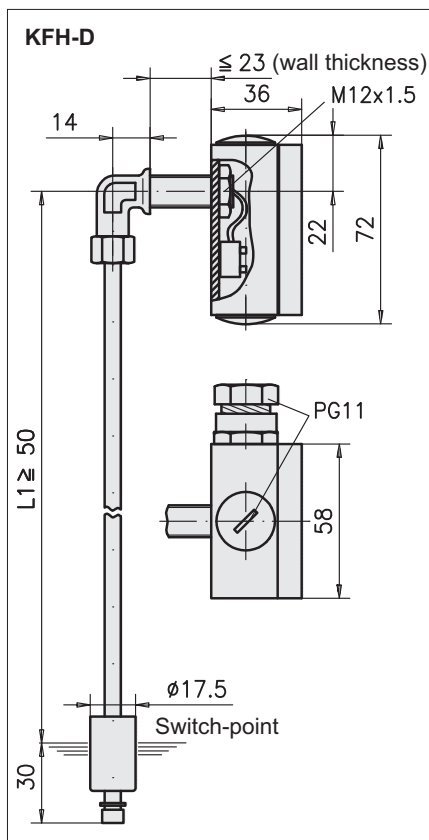
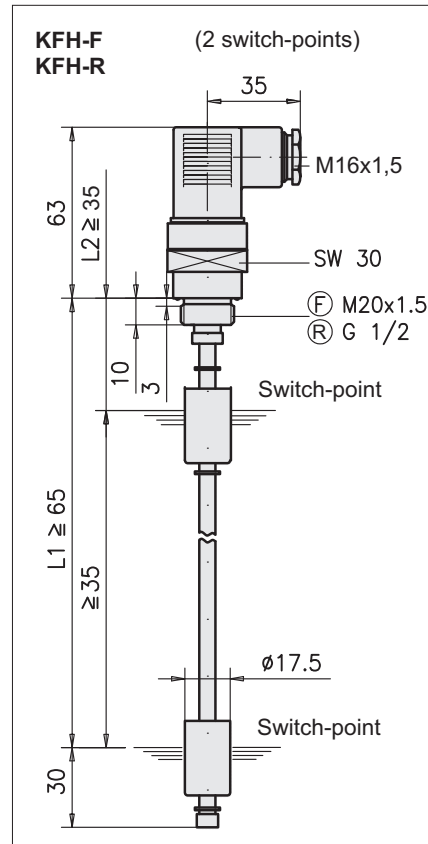
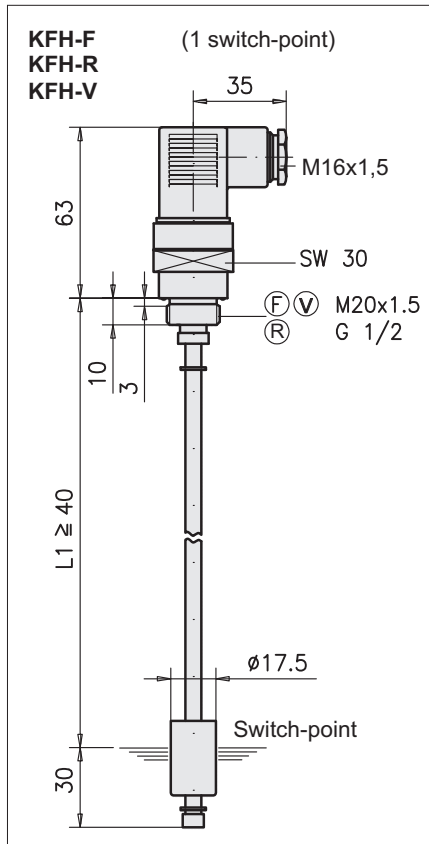




- Subject to modifications -



Level switch KFH-

- For smallest mounting conditions
- Many mounting variants
- Various switching functions
- Potential-free contacts
- Contacts with high switching data
- Sliding tube made of stainless steel by request
- **PUR float:**
This float is suited for mineral oils and water. If it is to be used with other media, user should check the float's compatibility, if necessary.

Application:

Registration of liquid levels in reservoirs.

Function:

One or max. two reed contacts are integrally cast in a sliding tube. A float with a permanent solenoid moves along the sliding tube to match the filling level. When the solenoid approaches the reed contact the latter is operated without contact.

With the type range KFH only NC contact or NO contact switches are available - no change-over switches. In the respective switching positions the rising of the float is prevented by means of safety rings. The possible switching functions can be taken from the order designation. In case of two switching points being, two floats are used - depending on the funktion.

For media which cannot be used with copper alloy there is a stainless steel version (see order designation). The parts getting in touch with the medium are made of 1.4301, the flange is made of aluminium alloy.

Technical data - general:

Operating pressure max: 1 bar
Temperature range: 0 ... 90 °C
Mounting position: vertical ±10°
Material:

Tube at standard version: copper alloy
Tube at version V: 1.4301
Float: polyurethane
Flange: aluminium alloy
Seal: NBR
Protection type: IP65

Plug-and-socket connection: DIN EN 175301-803, shape A
Weight at L1=300: 0,12 kg

Technical data - Reed contacts:

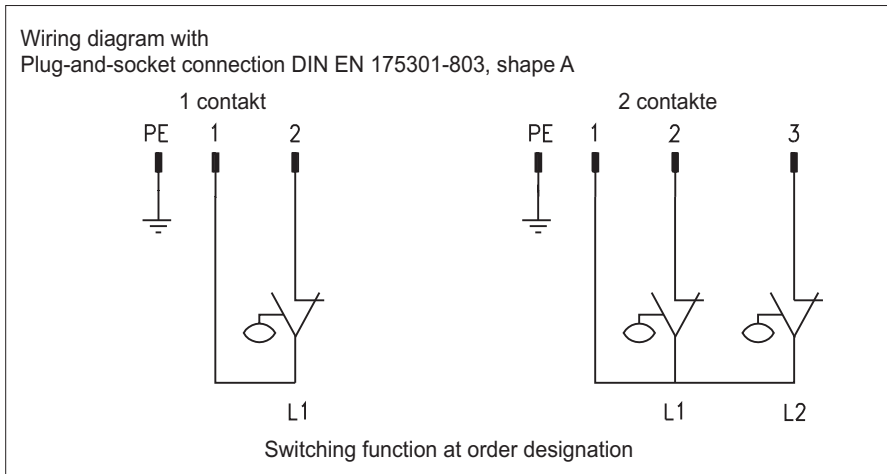
Switching voltage: 10 ... 230 VUC
Switching current max.: 0,5 A
Switching capacity max.: 10/30 W/VA

For inductive and capacitive loads, suppressor circuits shall be provided for. (Diode, RC element, varistor)

Level switch KFH-D-F-I-R-V

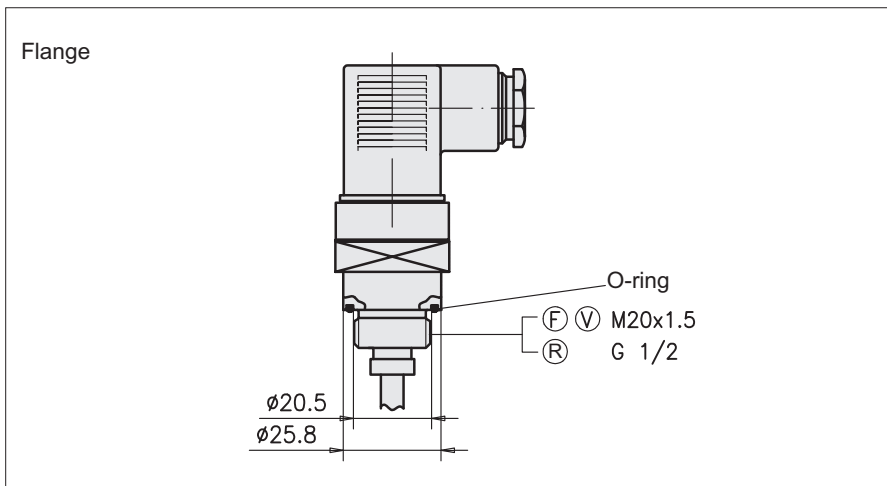
EUGEN WOERNER GmbH & Co. KG
Postfach 1661 DE-97866 Wertheim
Hafenstrasse 2 DE-97877 Wertheim
Tel. +49 9342 803-0 info@woerner.de
Fax. +49 9342 803-202 www.woerner.de

Data sheet P0400.01.13 EN
Replaces P0400.01.10 EN


Spare parts:

Hexagon nut DIN 936 M20x1,5	800.936-05
Hexagon nut DIN 431 G 1/2	800.431-03
Cable connector DIN EN 175301-803, shape A	913.400-20
Profile seal for cable connector	913.400-22
O-ring 20x1,5	915.202-58

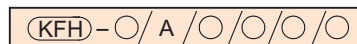
For operation in inherently safe electric systems see data sheet P0468.



- Subject to modifications -

Order designation:

Level switch



Basic type (mounting)		Switching function				Switching length		
		L1 = lower switching point at descending level		L2 = upper switching point at rising level		L1 mm	L2 mm	
1 switch-point	Flange M20x1,5	(F)				state when ordering, please	not applicable	
	Flange G 1/2	(R)	NC contact	(O)	not possible			(X)
	90° Terminal box	(D)	NO contact	(S)				
	90° Plug-and-socket connection	(I)						
	Tube of stainless steel Flange M20x1,5	(V)						
2 switch- points	Flange M20x1,5	(F)			NC contact	(O)	state when ordering, please	
	Flange G 1/2	(R)			NO contact	(S)		



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The safety and danger information stated in the safety data sheets of the substances used must be taken into account at all costs.

Transportation of gases, liquefied gases, gases under pressure, vapours and liquids, the vapour pressure of which is more than 0,5 bar above normal atmospheric pressure (1013 mbar) at the maximum admissible temperature, of easy inflammable or explosive media as well as transportation of foodstuffs is forbidden.

Information on EU Directive 2002/95/EC (RoHS)

With Directive 2002/95/EC of January 27, 2003, for the limitation of the use of certain hazardous substances in electrical and electronic devices (RoHS) material bans come into effect from July 2006 for electrical and electronic devices newly placed on the market for lead, cadmium, hexavalent chromium, mercury and brominated flame retardants.

In its controls and switching devices, WOERNER only uses materials which fulfil the criteria of EU Directive 2002/95/EC.

To the extent that hexavalent chromium has been used as corrosion protection in the parts which we produce ourselves, it has already been replaced by other environmentally tolerable protective measures.

The mechanical devices supplied by WOERNER are not affected by EU Directive 2002/95/EC.

But as WOERNER is conscious of its responsibility towards the environment, we shall also use materials fulfilling the requirements of the Directive for devices not covered by EU Directive 2002/95/EC as soon as they are generally available and their use is technically possible.