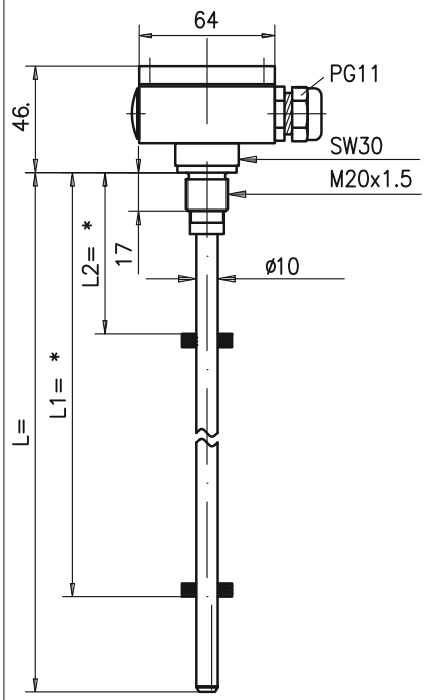
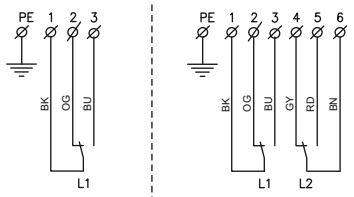
WOERNER
The Experts in Lubrication



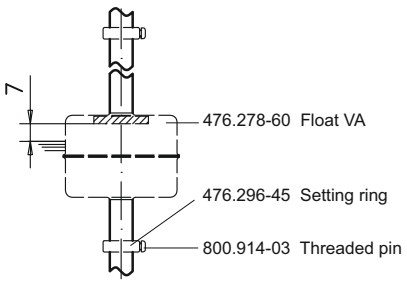
Circuit diagram



1 D.T. switch | 2 D.T. switches

Circuit diagram if contacts are not operated. Magnet outside the switching area.

Version with float



Reservoir size kg	Order-number	Length L= mm	Switching dimension L1 mm	Switching dimension L2 mm
1,5	**477.064-60**	138	94	–
2	**477.065-60**	112,5	69	–
3	**477.066-60**	278	234	–
5	**476.556-60**	165	121,5	48
7	**477.077-60**	230	186,5	48
10	**476.557-60**	345	301,5	48
25	**477.078-60**	311	262,5	53
30	**476.558-60**	423,5	324	48
30 Agitator	**476.554-60**	423,5	370	100

Special versions are available

Level switch "K"

- **Stainless steel float:**
  This float is suited for synthetic oils, mineral oils, glycoles, esters as well as biological oils. It can also be used for fuels.
  (Mind ex-protection!)
- **Use with follower pistons:**
  Suitable for greases, if applicable the condition of use is to be examined by the user.

Application:
To detect filling levels in containers with follow-up pistons.

Function:
One or two Reed contacts for maximum and minimum level have been cast in a sliding tube. A follow-up piston with a permanent magnet moves along the sliding tube in accordance with the filling level. When the magnet approaches the Reed contact, the latter is switched without contact. The corresponding switching signal is maintained due to the stroke of the follow-up piston.

Technical data:

Medium temperature:	0 ... +90 °C
Ambient temperature:	-20 ... +90 °C
Material	
Flange, junction box:	AL
Sliding tube:	1.4571
Protection type:	DIN EN 60529 IP65
Switching voltage:	10 ... 230 V
Switching current:	max. 1 A
Contact rating:	max. 40/60 W/VA

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

Accessories:
The switch can also be fitted with floats in order to monitor fluids.

Float	**476.278-60**
Setting ring	**476.296-45**
Threaded pin	**800.914-03**

Various versions of plug-in connection can be inserted into the existing Pg bores of the junction box.

The materials are in compliance with the manufacturing provisions as set forth in standard DIN EN 50020 VDE 0170/0171, part 7.

These materials may, without type testing and marking, be used for intrinsic systems to be operated within zones 1 and 2.

- Subject to modifications -

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 **P0420.07.16 EN**
Replaces P0420.10.15 EN

Important information about this data sheet

Reproduction, also in extracts, only permitted with the approval of the firm of EUGEN WOERNER GmbH & Co. KG.

All the information in this data sheet has been examined for correctness with great care. Nevertheless, WOERNER cannot assume any liability for losses or damage resulting directly or indirectly from the application of the information contained in this data sheet.

All products from WOERNER may only be used as intended and corresponding to the information in this data sheet.
For products supplied with operating instructions, the additional directives and information contained in them are to be complied with.

Materials deviating from those mentioned in this data sheet and the technical documents which further apply may only be poured into and processed in the appliances and systems manufactured and supplied by WOERNER by following agreement with and written approval by WOERNER.
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.

- Subject to modifications -

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