# Joint lever transmitter TS-KNG

Fluid level measurement, i.e. for gear box assemblies





TS-KNG standard



TS-KNG high-temperature type

Joint lever captures almost 180° deflection or parts of angle.

### Description

- High level measuring accuracy
- Joint lever capable of almost 180° measuring deflection
- Suitable for measurement in pressurized holding tanks
- Simultaneous switching and measuring
- Output linear to filling level or fill quantity
- Suitable also for viscious liquids
- Flange design allows fast installation and removal
- Vertical operation suitable
- Compact and rugged design

#### Function

A swivel-mount magnet is attached to the lightweight joint lever with its floater. Fluid level differentials cause corresponding joint lever deflection. Magnet rotation is detected by an analog hall-sensor and altered to a standardized signal by microcontroller. The fluid level allocation can be set independently and is output by a 4..20 mA or 0..10V or a frequency signal. Switchpoint programming to recent liquid level(s) is done by usage of a small magnet bit and displayed by LED

### Operation

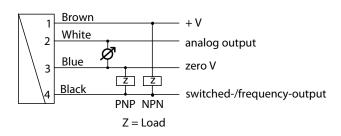
The articulated arm encoder is supplied factory adjusted to customer specifications (please see type code). Apart from that the switchpoint can be also adjusted by using the magnet bit.

Mounting above the liquid level prevents swivel wetting which provides a long-lasting operation also with viscious liquids.

Top mounting in a holding tank cap is also an option, here special attention for free moving space for joint lever arm must be obeyed.

Software and USB adaptor for self programming are available upon request.

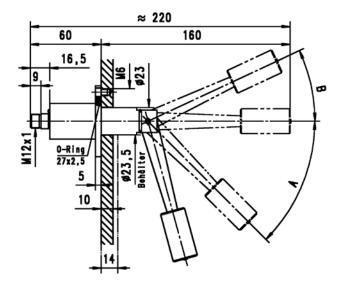
### **Electrical connection**



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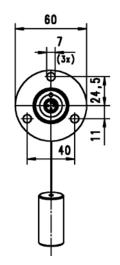


## **Options/ accessories**

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K	PU	02	S	G		Converted 4-wire cable assembly with plug
	PU					PUR cable material
	Х				1	Other cable material available upon request
		02				Cable length 2 metres
		05				Cable length 5 metres
		10				Cable length 10 metres
			S			Extruded plug
				G		straight connector plug outlet
				W		90 deg. connector plug outlet
KB	4			W	1	Plug for self-confection, max. 0.5 mm², 4-wire



The device of state	
Technical data	Type: TS-KNG
Level range	2 x radius maximum (r = 10 cm50cm, special arm lengths upon request)
Resolution	1 mm, typical
Operating pressure	PN 16 bar
Operating temperature	0-70° C
Supply voltage	18 30 V DC
Quiescent current	< 100 mA, typical
Analog output	4 20 mA or 0 10 V
Connection	circular plug-in connector M12 x 1
Switched output	transistor output PNP or NPN (short circuit- and polarity-reversal safe) I out = 100 mA max.
Material codes Fluid-wetted	joint lever: stainless steel floater: Spansil magnet adaptor: brass, nickel-plated sealing: Viton
Non-fluid-wetted	housing: brass, nickel-plated
Protection class:	IP 67
Approval	CE

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