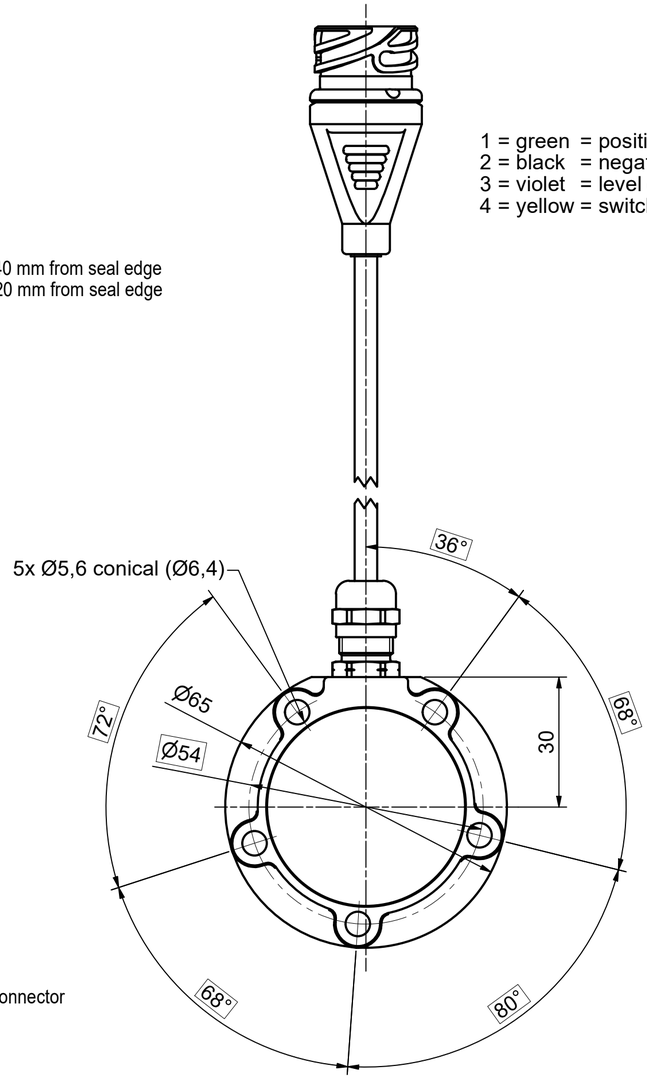
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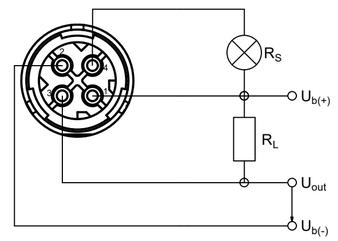
(d) Technical Data

Measuring principle	capacitive with integrated electronic
Supply voltage	24 VDC (-25 % / +50 %) (18-36 VDC)
Power consumption	without load: ≤ 30 mA
Reverse connection protection	between positive and negative supply
Measurable media	diesel fuel, bio-diesels, eco-diesels (ε_r 1,5 ... 3,5)
Sensor output	voltage output: empty: 0,0 V measuring range start: 740 mm from seal edge full: 10,0 V measuring range end: 20 mm from seal edge
Output current	without ext. pullup resistor 2 mA with ext. pullup resistor 20 mA
Output characteristics	linear
Switchpoint	730 mm from seal edge
Function	MIN operating current negative-switching switching delay: 2 sec.; switching hysteresis.: 7 mm
Signal output switching current	maximum: 500 mA short-circuit proof
Measurement deviation	±3 % of the measurement range media compensation at immersion depth > 50 %
Sensor pipe length	750 mm
Operating temperature	-40 °C ... +85 °C
Storage temperature	-50 °C ... +85 °C
Pressure resistance	5 bar (25 °C / 1 h) 72,5 psi
Electrical connection	4-wire cable length = 800 mm ± 15 with mounted connector ISO 15170-A1-4.1-Sn/K1
Mounting position	vertically top down
Mechanical connection	5-hole-flange
Environmental protection of flange	IP6K9K according to ISO 20653
Environmental protection of connector	IP6K9K according to ISO 20653 with mounted mating connector
Marking	manufacturer, manufacturer-no., serial-no., date: year/week
Flange material	aluminum alloy
(d) Gasket	flat gasket NBR
Profile material	aluminum alloy
EMC	conducted emissions tests according to CISPR 25 measurement of radiated field strength according to CISPR 25 immunity test according to ISO 7637-2 +A1 immunity to surge voltages DIN EN 61000-4-5 immunity test according to ISO 11452-2 immunity to conducted disturbances, induced by radio frequency fields DIN EN 61000-4-6 ESD-test according to ISO 10605 transient immunity test with test pulse 5 (Load-Dump) according ISO 7637-2 +A1
Vibratory resistance	sine-vibrations test according to DIN IEC 68-2-6/-27
Shock resistance	shock test according to DIN IEC 68-2-6/-27
Environmental test	thermal shock test according to EN 60068-2 temperature cycling examination according to EN 60068-2 salt spray examination according to EN 60068-2

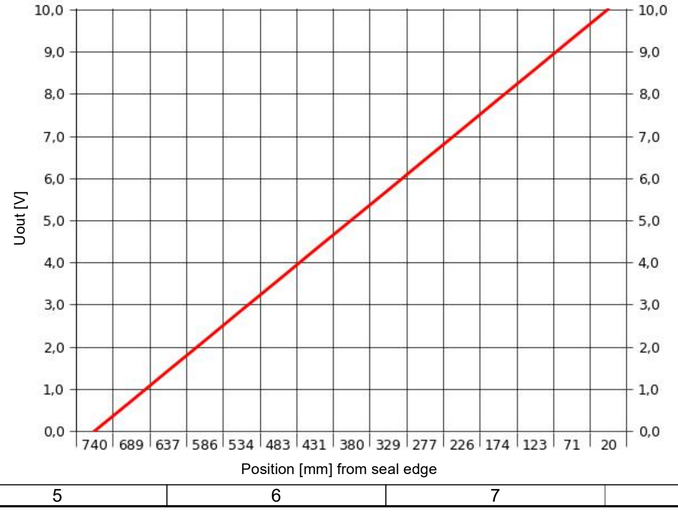


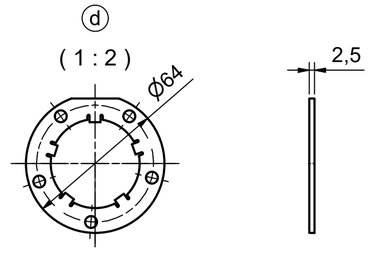
1 = green = positive(+)
2 = black = negative(-)
3 = violet = level output
4 = yellow = switching output

Connection diagram



output characteristics





shipment is including flat gasket

d	TA-2021-0046, TA-2023-0019, TA-2025-0064, revised	08.12.25	PenAn/SchPa
c	TA-2021-0046; div.	12.12.22	MoeMi/KoeLa
b	sensor output	23.04.09	SchAl/SasCh
a	negative-switching, switch delay etc.	01.08.08	SchAl/StaRo
Zust./rev.	Änderung/modification	Datum/date	Name/Geprüft checked by

Zul. Abweichung / admissible tolerance: (d) ISO 2768:1989-vK
Oberfläche / surface: -
Maßstab / scale: 1 : 1
Sprache / language: ENU
Blatt / sheet: 1 /1

	Datum / date	Name / name
Erstellt / created by	10.06.2008	MoeMi
Geprüft / checked by	12.06.2008	SasCh

Format / Size: A2
Maßeinheit / dimension unit: in [mm]

Benennung / description:
ITS-60 tank sensor - 750 mm
with mounted connector ISO 15170-A1-4.1-Sn/K1

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Zeichnungsnummer / drawing number: 600030
Zng. Art/ drw.type: DRC