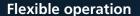
Mini-Switch LB 471 / DuoSeries LB 4700 2-WIRE LEVEL SWITCH MEASURING SYSTEM



Switch between standard and professional mode for additional functions.

Space-saving & cost-optimised

Cost-effective and compact solution for monitoring minimum and maximum levels.



Robust & resistant to interference

Optional lead collimator protects against background radiation. Corrosion-resistant stainless steel housing and extremely robust design.

Reliable & safe

Permanent error- and self-monitoring.





Mini-Switch LB 471 / 4700 · 39505PR2 · Rev.04 · 08-2025

TECHNICAL DATA & FACTS

Mini-Switch LB 471 / DuoSeries LB 4700

Transmitter Mini-Switch LB 471

Applications (type) Level switch

Variants

Cassette (3U, 7HP) or plug-in card (3U, 4HP)

Power supply

18 to 30 V DC or 24 V AC +10% to -15%

Option: 115/230 V AC transformer unit +10% to -15%, 47 to 65 Hz

Power consumption max. 4 W per module

Ambient temperature -30 to +60 °C (-22 to +140 °F)Installation 19" rack or wall housing (IP66) Outputs Digital 1 relay (SPDT) für min./max. alarm

1 relay for collective error message

1 relay for warning message, alternatively usable as min./max. alarm

Permissible load: AC: max. 250 V, max. 1 A, max. 200 VA

DC: max. 300 V, max. 1 A, max. 60 W

Induction-free

Inputs Digital for external empty adjust
Weight 0.3 kg per module

Detector connection 2-wire

IP protection IP20, IP66 (depending on installation solution)

Detector Type LB 4700

Power supply via evaluation unit

Housing material Stainless steel 1.4301 / AISI 304 (others on request)

Measuring range CrystalSENS: 25/25, 40/35, 50/50, 50/60 mm

SuperSENS: 150/150 mm

Ambient temperature $-40 \text{ to } +60 \text{ °C} \text{ } (-40 \text{ to } +140 \text{ °F})^*$

-40 to +100 °C (-40 to +212 °F) due to additional water cooling* ≤ 0.002 %/°C (-40 to +60 °C (-40 to +140 °F)) for CrystalSENS ≤ 0.01 %/°C (-40 to +60 °C (-40 to +140 °F)) for SuperSENS

Water cooling Optional
Collimator for background suppression Optional

IP protection IP66, IP67

Explosion protection ATEX, IECEx, NEC/CEC, INMETRO, EAC, KCs

Special features

Temperature stability

- Interference protection
- Switching between standard and professional mode
- Automatic calculation of full count rate and time constant



^{*}Observe any temperature restrictions for explosion protection!