







5531B

- -4 digit 1/8 DIN (48 x 96 mm) loop-powered LCD display
- Easy push-button configuration
- Backlit LCD display is readable in low light conditions
- Display can be mounted in the safe area or in I.S. / Ex zone 1



















Application

- The 5531B indicator is powered by the 4 to 20 mA current loop and is easily scaled to display the correct process value.
- · Because it does not require separate power wiring, the 5531B is perfect for remote display of process loops.
- The 5531B can be mounted in Ex Zone 1.

Technical characteristics

- With a full measurement range of 3.6 to 23 mA, the 5531B is NAMUR NE43 compliant.
- The display can be push-button scaled to any range between -9999 to 9999, and reverse display action is possible.
- The LCD backlight can be set to half or full intensity for easy viewing in low light conditions.
- The display only requires 1.5 VDC, (75 Ω loop load), with the backlight turned off.
- · The input is HART transparent.
- The front push-buttons can be disabled to prevent unauthorized adjustment.

Mounting / installation

• Once panel mounted with the included gasket, the 5531B provides IP65 ingress protection.

Applications Input signal: 4...20 mA 0 3 55.3 *l*

Order

Туре	Version
5531B	Zone 1, 2

Environmental Conditions Operating temperature Storage temperature Calibration temperature Relative humidity Protection degree	-20°C to +60°C 2028°C < 95% RH (non-cond.
Mechanical specifications Dimensions (HxWxD) Cut out dimensions Weight approx Wire size, connector terminal 1 - 4	44.5 x 91.5 mm 200 g
Common specifications Supply Supply voltage	Input loop-powered
Response time Response time (090%, 10010%) EMC immunity influence Signal / noise ratio Updating time	< ±0.5% of span > 60 dB
Input specifications	
Current input Measurement range Loop error detection, 420 mA: Low Loop error detection, 420	
mA: High	~ > 24 mA
Input voltage drop, without backlight	ŭ
backlight	< 6.5 V @ 20 mA
backlight	< 10.5 V @ 20 mA

Output specifications

Display	
Display readout	± 9999 (4 digits)
Digit height	16 mm

Observed authority requirements

EMC	2014/30/EU
ATEX	2014/34/EU
RoHS	2011/65/EU
EAC	TR-CU 020/2011
EAC Ex	TR-CU 012/2011

NG 26...14 Approvals

ATEX	KEMA 05ATEX1105X
IECEx	DEK 24.0002X
CCC	2024322309006239
EAC Ex	EAEU KZ 7500361.01.01.08756