

Ex-Box Limiter with LED-Display

The Ex-Box LIM/LED is a limiter for switching off connected heating circuits in case of excess temperature or current overload. Furthermore, signal values for maximum and minimum temperatures are programmable. Programming and operation is done via external panel Ex-Control for manual control.

Advantages:

- Rugged enclosure IP 65
- Increased safety against unauthorised changes of rated value
- Increased safety through fail alarm
- Integrated heating circuit monitoring

Applications:

- Hazardous areas
- Power plants
- Chemical & petrochemical industries
- Oil & gas industries
- Pharmaceutical industry
- Plastics industry
- Wastewater treatment plants



Type Ex-Box LIM/LED





Technical Information

Type Ex-Box LIM/LED

Data

■ Certificate	IBExU 04 ATEX 1165 X
■ Classification	II 2G Ex emb [ib] IIC T4 Gb II 2D Ex tb IIC T100°C Db -32 °C ≤ Ta ≤ 60 °C
■ Dimensions	140 x 140 x 150 mm (w x h x d) without wall-mounting bracket, excluding glands
■ Enclosure	Aluminium
■ IP rating	IP 65
■ Ambient temperature	-32 up to 60 °C
■ Switching capacity	16 A
■ Display	2 x 4 35-segment LED
■ Operating voltage	230 V +/- 10 %
■ Nominal current	Max. 100 mA
■ Load current, max.	16 A (ohm resistive load)
■ Load output	230 V / 16 A, 2-pole
■ Alarm output	Optically separated 100 mA
■ Interface	Intrinsically safe for Ex-Control
■ Measurement input	Pt100 2/3 wire, intrinsically safe
■ Measurement range	-40 °C up to +300 °C
■ Control range	+50 °C up to +300 °C
■ Load disconnection	2-phase
■ Weight	Approx. 3.5 kg

Cable Entries

- 1 x M25 for voltage supply (9-13 mm; with add-ons for 11-15 mm)
- 1 x gland 7-10.5 mm
- 1 x M25 for heating line (2-fold 6 mm)
- 1 x M20 for sensor (tension range 3-4 mm)
- 1 x vent screw M20

Features

- Interface for manual control panel Ex-Control
- Programmable parameter are identical to Ex-Control
- LED green: normal operation state
- LED red, blinking: alarm
- LED red, permanent: fault

If a fault (excess temperature, overcurrent and internal fault) is indicated, it will not automatically reset. Reset of the fault is done via the Ex-Control.

Designation	Art. No.
Ex-Box LIM/LED	0X60023