

DG Tk2-ex Gas Detector

ATEX Marking:	 II 3 G Ex ec II C T4 Gc
Sensor Type:	Catalytic
Output Signals:	4...20 mA, linear response DG Tk2r-ex includes a relay 24 V / 1 A for resistive load, additionally a buzzer and acknowledge button for buzzer. Activation delay is set at factory, see production documents.
Operating Voltage:	24 VDC \pm 20 %, regulated
Max. Power Consumption:	4.0 W
Cabling:	4-electrode, 4-wire connection, For correct cable specification refer to EN 60079-14
Sensor Life (clean air):	5 years, typical
Typical T90 Response:	according IEC 60079-29-1
Operating Temperature:	-40...+65 °C
Operating Humidity:	0...95 % RH, non-condensing
Degree of Protection:	IP54
Weight:	620 g

Note: Calibration is done by using IR Communicator. Keep the red IR lens at the side of the device visible.

Keep test gas concentration within range of the detector and 0...50 % LEL.

Recalibrate:

- at least once a year.
- if on-site ambient pressure deviates more than \pm 5 % from normal pressure.
- if exposed to a shock e.g. a drop.

Incorrect connections may damage the device. The sensor element shall be oriented downwards.

DG Tk2-ex and DG Tk2r-ex can be installed in

Indication lights:

Constant green: Normal operation mode.

Constant yellow: Sensor failure.

Constant red: Gas alarm.

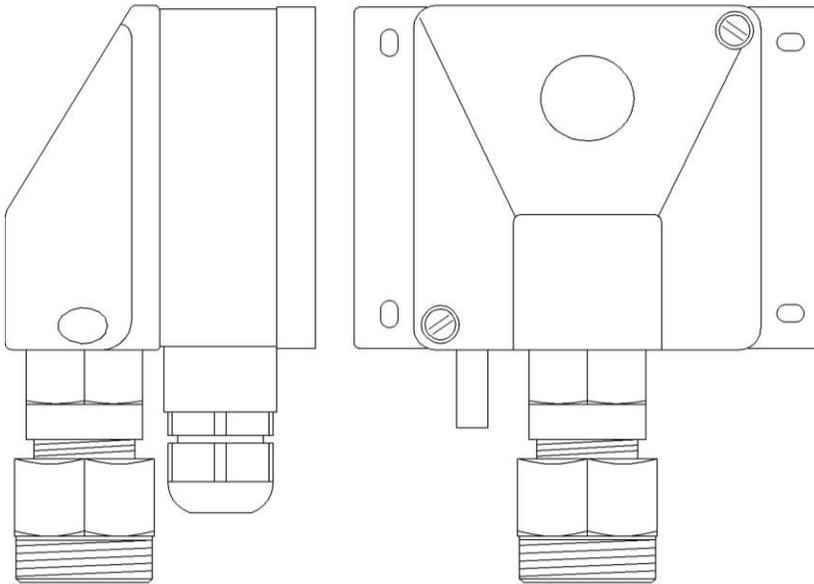
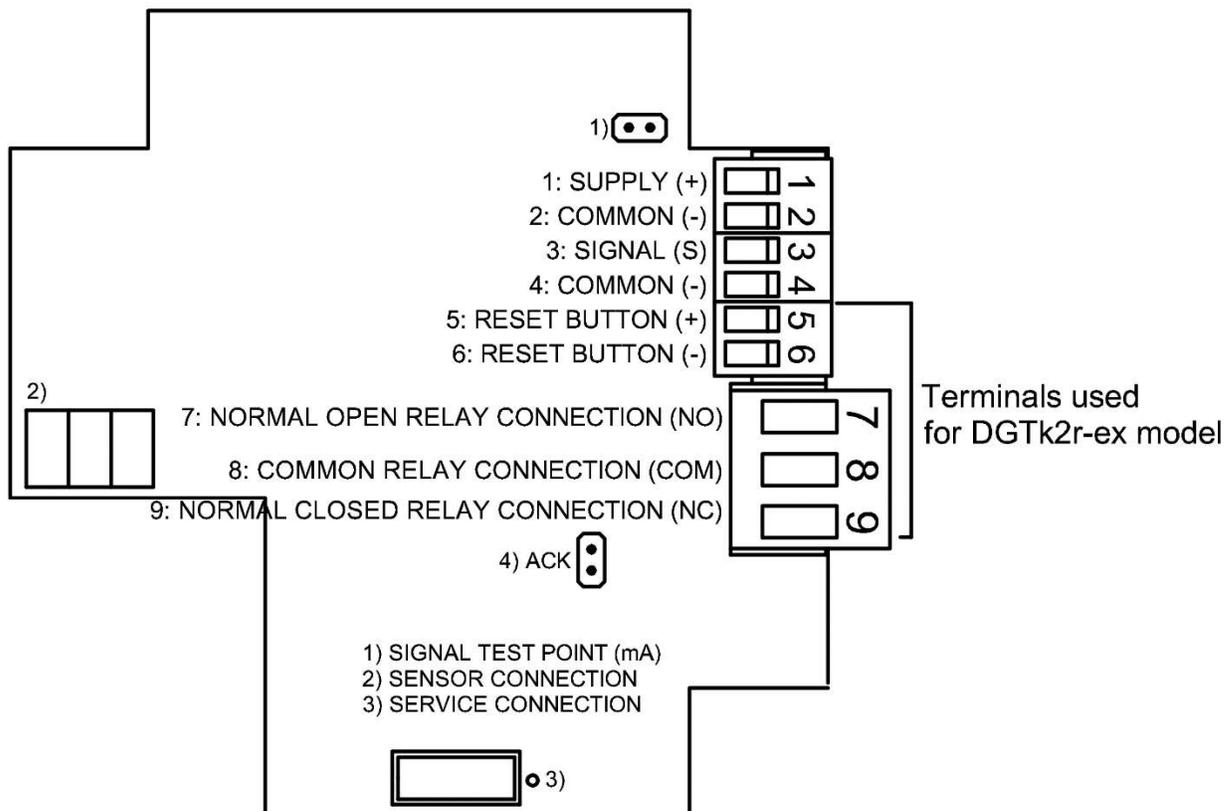


Figure 17, DG Tk2-ex and DG Tk2r-ex gas detector general view.



4) BUZZER SELECTION, DGTK2r-ex ONLY:

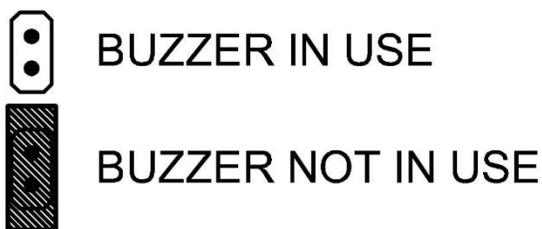


Figure 18, DGTK2r-ex connections and layout on the circuit board.

NOTE: Availability of connections depends on the DGTK2-ex model.

NB! MAKE SURE THERE IS NO RISK OF EXPLOSION!
 Check the working environment with portable gas detector of right Ex class before carrying out the connections.
 Do not make any connections when circuits alive!