

## DGTt2-ex Gas Detector

ATEX Marking:	 <b>II 3 G Ex ec II C T4 Gc</b>
Sensor Type:	Solid-State
Output Signals:	(0)4...20 mA or (0)2...10 V linear or logarithmic response, DGTt2r-ex includes a relay 24 V / 1 A for resistive load, additionally a buzzer and acknowledge button for buzzer.
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):	3...5 years, typical
Operating Temperature:	Ammonia -30...+40 °C Other gases -20...+40 °C, (reduced sensitivity -30...+40 °C)
Operating Humidity:	15...90% RH, non-condensing
Degree of Protection:	IP54
Weight:	390 g
Note:	The calibration is done by using the handheld calibration device (IRC) via infrared link. Therefore the infrared lens of the device must be clearly visible. Incorrect connections may damage the device. DGTt2-ex and DGTt2r-ex can be installed in ATEX zone 2.
Indication lights:	Constant green: Normal operation mode. Constant yellow: Sensor failure. Blinking red: Gas alarm. Blinking will stop when the gas concentration is lower than the alarm limit.

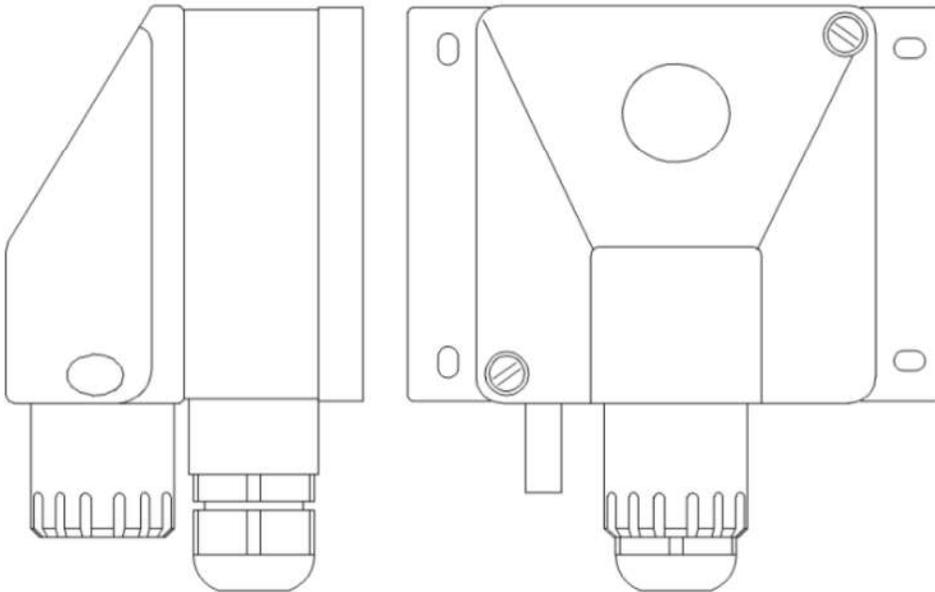


Figure 19, DGTt2w-ex and DGTt2rw-ex gas detectors general view (the suffix w means wall mounted model). The detectors can also be mounted to the ceiling (model with suffix c) or to a duct (model with suffix d).

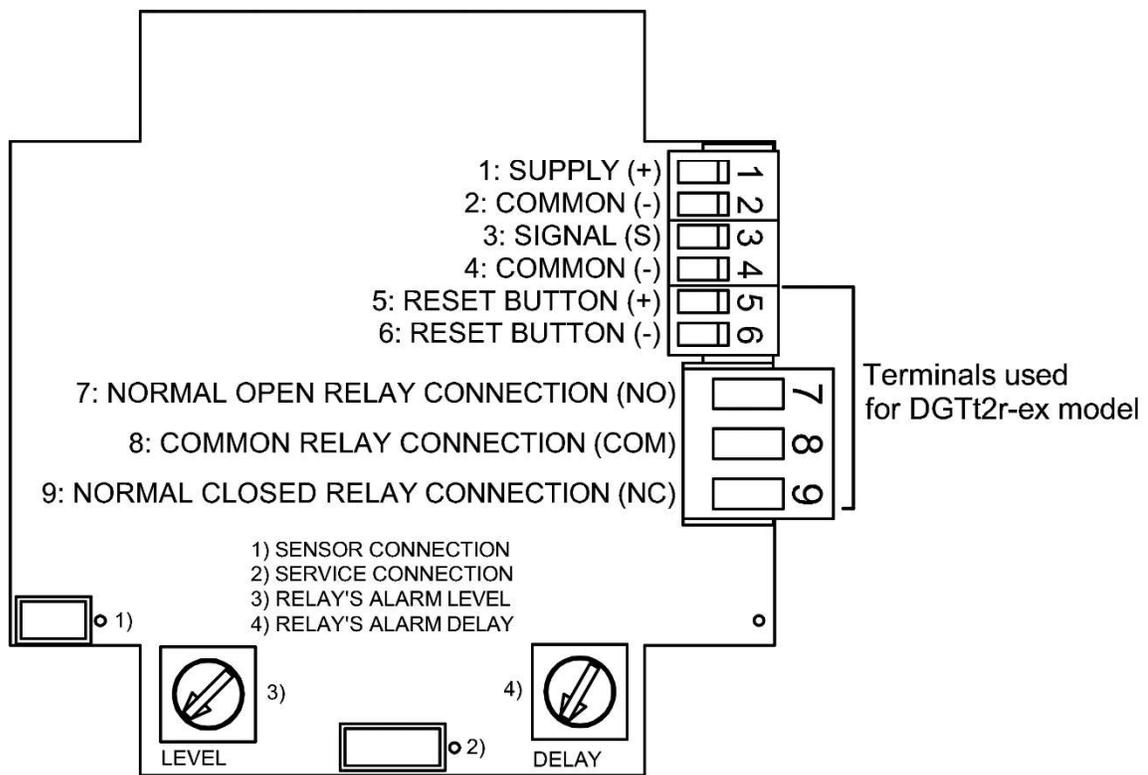


Figure 20, DGTt2r-ex connections and layout on the circuit board.

NOTE: Availability of connections depends on the DGTt2-ex model.

**NB! MAKE SURE THERE IS NO RISK OF EXPLOSION!**

Check the working equipment with portable gas detector of right Ex

DGTt2r-ex DETECTOR ALARM AND DELAY SETTINGS	
ALARM LEVEL (% OF SIGNAL)	DELAY
1 = 10%	1 = 1 s
2 = 20%	2 = 3 s
3 = 30%	3 = 5 s
4 = 40%	4 = 10 s
5 = 50%	5 = 15 s
6 = 60%	6 = 30 s
7 = 70%	7 = 45 s
8 = 80%	8 = 60 s
9 = 90%	9 = 120 s
10 = 100%	10 = 180 s
11 = 110%	11 = 240 s

Figure 21, DGTt2r-ex alarm and delay settings.

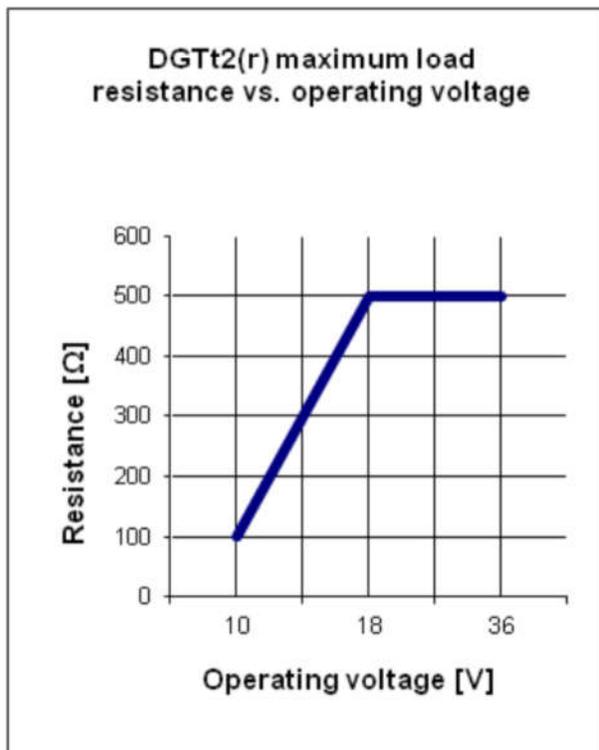


Figure 22, DGTt2-ex and DGTt2r-ex alarm and delay settings.