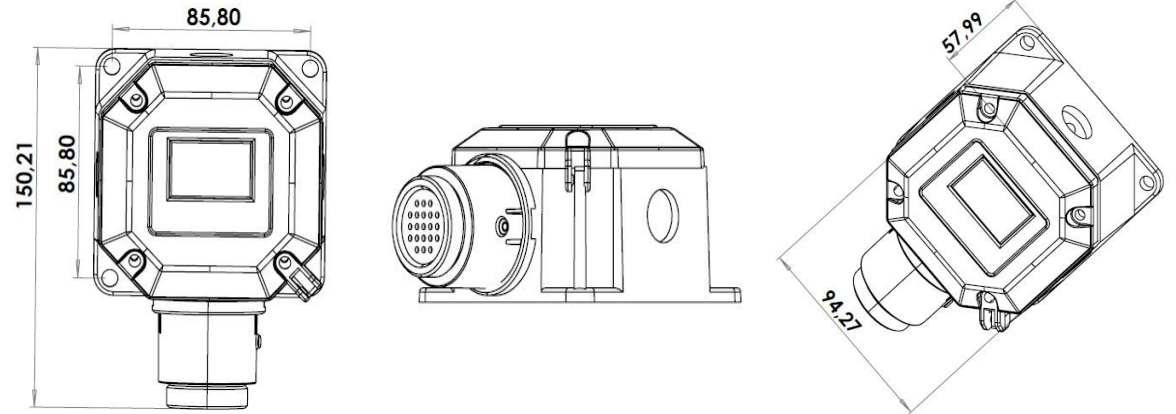


BTN-SERIES

BTN-XY42 / BTN-XY44 Datasheet

Description

- BTN series effectively usable in light-domestic environments and non-classified areas as a cost-effective solution.
- BTN series has 3 relay outputs Alarm 1, Alarm 2 and Fault.
- BTN series gas detectors can provide both RTU Modbus output and two relay outputs at the same time with the optional RS485 interface module.



- 3 Relay Outputs (Alarm 1, Alarm 2 and Fault)
- Optional RS485 (Modbus RTU) Interface module
- PG11 Cable Gland included
- IP54 Protection Class
- ABS Housing

Table 1: BTN Flammable Gas detectors

XY	Gases	Product Code	Measuring Range	LEL(Vol)
30	LPG	BTN-3042	0-100% LEL	1,8
31	Methane	BTN-3142	0-100% LEL	5
33	n-Butane	BTN-3342	0-100% LEL	1,6
34	Propane	BTN-3442	0-100% LEL	2,1
36	Hydrogen	BTN-3642	0-100% LEL	4
37	Pentane	BTN-3742	0-100% LEL	1,5

Table 2: BTN Toxic Gas detectors

XY	Gases	Product Code	Measuring Range	TLV-TWA
44	Carbon Monoxide	BTN-4444	0-300 ppm	50 ppm
48	Ammonia	BTN-4844	0-100 ppm	50 ppm
48	Ammonia	BTN-4844/B	0-1000 ppm	50 ppm
62	Ethylene Oxide	BTN-6244	0-20 ppm	1 ppm
64	Hydrogen Sulfur	BTN-6444	0-100 ppm	20 ppm
65	Oxygen*	BTN-6544	0-25% Vol	19,50% Vol
66	Sulfur Dioxide	BTN-6644	0-10 ppm	5 ppm
67	Nitric Oxide	BTN-6744	0-250 ppm	25 ppm
68	Nitrogen Dioxide	BTN-6844	0-30 ppm	5 ppm
69	Chlorine	BTN-6944	0-10 ppm	1 ppm
72	Freon**	BTN-7241	0-2000 ppm	-
72	Freon**	BTN-7241/A	0-2000 ppm	-

*Oxygen is not toxic gases. It is listed in this table because it is using electrochemical sensor.

** Freon, there is a special case, therefore, they use different type sensing element and sensor head.

Specification	Flammable Gases	Toxic Gases
Sensing Element	Catalytic	Electrochemical
Measurement Unit	LEL	ppm
Output	3 NO Relay	3 NO Relay
Sensor Warm-up Time	60 sec	60 sec
Response Time(T90)	<25 sec	<45 sec
Measuring Range	0-100% LEL	see the Table 2
Accuracy	%±2	%±2
Operating Temperature	-10°C ~ +50°C	-10°C ~ +50°C
Humidity	5 ~ 95 %RH	5 ~ 95 %RH
Input	12-24 VDC	12-24 VDC
Power Consumption	Max. 3W	Max. 3W
Output Options	Modbus RS485	Modbus RS485
Relay	2 Alarm, 1 Fault NO De-energized	2 Alarm, 1 Fault NO De-energized
Cable Entry	3xPG11	3xPG11
IP Rating	IP54	IP54
Junction Box	ABS Plastic	ABS Plastic
Sensor Head	ABS Plastic (SH40)	ABS Plastic (SH40)
Dimensions/Weight	120x170x63mm (250gr)	120x170x63mm (250gr)

Optional Modules

- **BTN-RS:** RS 485(Modbus RTU) interface module

• ProSense gas detectors are fully tested and calibrated before delivery. Gas Detectors must be routinely checked and calibrated to ensure fully operational at all times regarding EN 60079:29-2.

Applications

- Laboratories
- Factories
- Safe Area