

ALARM B-780 DETECTOR KD-5/GD-1B

Simple and Reliable Three-point Gas Alarm System



Features

- The B-780 works with three detector models suitable for different applications.
- Gas alarm will be notified with red LED blinks and beeping sound.
- Fault alarm will be notified with amber LED blinks and beeping sound.
- Alarm unit is wall-mounted and easy to install.
- Power supply is 100/220 VAC and is connected to a standard AC outlet.
- Compact and lightweight
- There are three types of external outputs, which can be output to an external alarm device, emergency shutoff interlocking system, etc.
- Operation check can be done easily with TEST button.

Specifications

ALARM

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Model	B-780				
Target Gas	LPG	Methane			
Number of Connected Detectors	Up to 3 Units				
Detectors to be Connected	KD-5G, KD-5T, GD-1B	KD-5GM, KD-5M			
Gas Alarm	Red ALARM LED blinks Beeping sound, 80 dB/m or higher Selectable to auto resetting or manual resetting				
Fault Alarm	Amber FAULT LED blinks				
Power Supply	100/220 VAC±10%, 50/60Hz				
Power Consumption	Approx. 5 W during normal operation (max.) Approx. 10 W during gas alarm (max.)				
External Outputs	(1) 6 VDC, 10 mA during normal operation, 12 VDC, 10 mA during gas alarm, and 0 VDC during fault alarm				
	(2) 100/220 VAC, 1 A max. during gas alarm (output delay time is approx. 35 sec., which can be changed to zero (no delay) by DIP switch setting), Replaceable fuse				
	(3) NO/NC contact 24 VDC, 1 A max. (output delay is approx. 35 sec., which can be changed to zero (no delay) by DIP switch setting)				
Operating Temperature	-10°C to +40°C (No condensation)				
Dimensions	W138 × H180 × D33 mm (Excluding protrusions)				
Mass	Approx. 420 g				
Accessories	Screws x 2, Crimp terminals x 10				

DETECTOR

Model	KD-5G	KD-5GM	KD-5T	KD-5M	GD-1B		
Detection Principle	Catalytic combustion	Catalytic combustion			Catalytic combustion		
Target Gas	LPG	Methane	LPG	Methane	LPG		
Alarm Set Value	1/100 to 1/4 %LEL	1/100 to 1/4 %LEL					
Response Time	30 sec. or less	1 min. or less	30 sec. or less	1 min. or less	30 sec. or less		
Power Supply	24 VDC±20%	24 VDC±20%					
Current Consumption	30 mA or less at 24 V	30 mA or less at 24 V					
Structure	Explosion-proof (d2G4)	Explosion-proof (d2G4) Weather-resistant			_		
Cable Length	Up to 500 m (CVV, 1.2!	Up to 500 m (CVV, 1.25 mm², 3-core cable)			Up to 200m (0.5mm², 3-core cable)		
Operating Temperature	-10°C to +60°C	-10°C to +60°C			-10°C to +40°C		
Dimensions	W94 x H141 x D123 m	W94 x H141 x D123 mm (Excluding protrusions)					
Mass	Approx. 1,500 g	Approx. 1,500 g					
Mounting Method	By screws	By screws					
Accessories	Stand, rainproof cap, ra	Stand, rainproof cap, rainproof cover, screws, screw expansion plugs, crimp terminals					

Installation Location of Detectors

- 1. Location where leaked gas is likely to stay
- 2. Within 10 cm from the floor (for LPG)
- 3. On the leeward side
- 4. Location where daily check of gas detector can
- 5. Location where rainwater does not accumlate and the gas detector does not submerge

URL. https://www.newcosmos-global.com

About Installation Work

Explosion-proof construction is required when installing the gas detector in storage facilities.

* The cable is a pressure-resistant packing method. Use a packing with an inner diameter of 10 mm φ and a cable with an outer diameter of 9.1 to 9.9 mm φ .

About Maintenance

The gas alarm system requires regular maintenance. We recommend operation check every month and periodic inspection* at least once a year.

* Please contact us for periodic inspection.



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SAFETY WARNING

Carefully read the instruction manual prior to use.

Select and use the device designed to detect the required type of gas. Use of a wrong sensor type may cause an accident.