SAFIBRA

Solutions, When the Conventional Ones Run Out of Breath



SECURE DOOR DETECTOR

MONITORING SYSTEMS

Remote monitoring of premises requesting permanent security

The Secure Door Detector is a specifically designed detector for permanent monitoring of key premises and critical infrastructure using the state-of-the-art FBG optical approach. Under the highest security requirements, it helps you to detect intrusion and vandalism attempts at monitored places, such as cabinets, doors, entrances, etc., providing you with real-time alerts. This gives you valuable time to take appropriate action to minimize damages to your property and potential profit loss.

100% passive detector

As the detector does not need the power supply, it easily monitors places without electricity and hazardous or hard to reach areas.

Rotary shaft

The detector is designed to capture even small door and cabinet openings using a very sensitive rotary shaft.

Universal platform

Additional detector types can be used together with the manhole detector (manhole detector, strain, temperature, humidity, etc.).

KEY PRODUCT FEATURES & BENEFITS

Mounting accessories included

The basic mounting plates are delivered together with the detector for easier installation on the upper side or rear side of a structure. Additional accessories upon request.

Connectivity

The detector can be used alone or in series as part of a larger detection network to minimize the cabling costs.

Low operating costs

Optical fiber detectors are very durable and, if installed correctly and protected from the environment, can be operated with minimal maintenance and servicing.

Immune to EMI/RFI

The detector enables operation even in harsh environments, as the technology is fully passive, explosion safe and immune to electro-magnetic/radio frequency interference.

Slim line

The small footprint of the detector is suitable for internal cabinets with minimal space or outdoor cabinets and doors.

Advanced customization available

The Secure Door Detector can be customized for other applications requiring continuous monitoring of linear and rotational movements.

20+ YEARS

PROJECT REQUIREMENTS

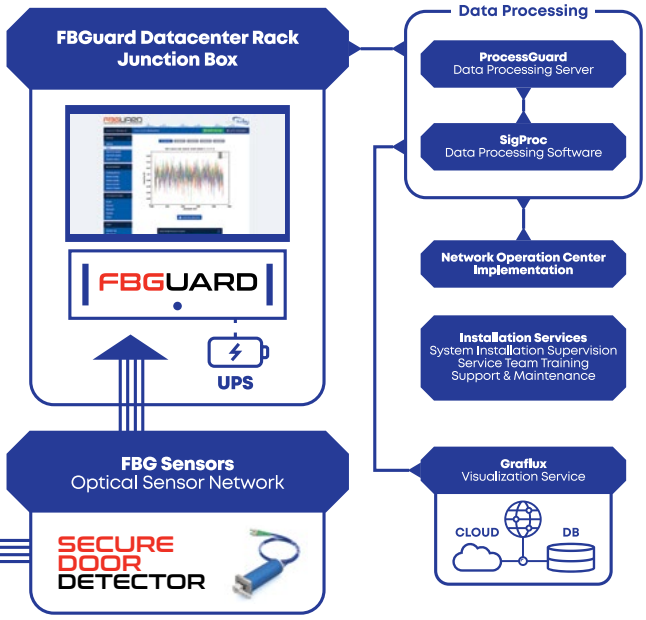
SECURITY
street cabinet, doors, cabinets, entrance security, vandalism security, cybernetic safety & security

COMMUNICATIONS
telecommunication networks, data transmission

INFRASTRUCTURE
critical infrastructure and hard to reach, explosive, harsh or hazardous areas

DEFENCE INDUSTRY
military/army, navy, air force

SHM
rotational based movements and deviations monitoring



TECHNICAL PARAMETERS

Optical

Wavelength range	1505-1590 nm
Measurement range	1 nm (typ)
Temperature sensitivity	Temperature compensated design < 0.001 nm/°C
Repeatability	< 2% FS

Environmental and Mechanical

IP protection	IP67
Dimensions	cylindrical housing with flange and shaft 125 mm x 40 mm diameter (without shaft)
Detector weight	290 g
Operational temperature range	-20 – +70°C
Rotary shaft rotation range	270°

Fiber Optic Cable

Fiber type	SMF G.652
Fiber input/output	ruggedized
Fiber length	1 m typical
Fiber termination	bare fiber (scissor cut for splicing) - default FC/APC - optional other connectors - upon request

Mounting

Mounting surface	any
Mounting plates	**Basic** (four Ø3,2 mm corner holes) delivered together with the detector **Special shaped** supplied upon request

All parameters can be customized upon request.



GET IN TOUCH WITH US

and we will recommend you the most suitable solution for your project.

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