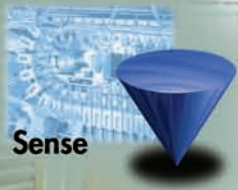


CARLO GAVAZZI
Automation Components



The BFD Series

Light Curtains for Doors





BFD Light Curtains ***The new choice for cutting edge safety for industrial doors***

The BFD Series light curtains are designed specifically for the industrial door market, as they provide a new safety sensor solution to prevent a closing door from colliding with people or objects in the door operating area. The emitter and receiver, installed in or to the guide rails of the door, generate an infrared light curtain grid that detects obstacles without any contact. Unlike standard door sensors located near the bottom of the door, the BFD can detect a raised forklift moving under a closing door. The high immunity to direct sunlight and the automatic level adjustment also makes them suitable for outdoor applications, since their accuracy is not affected by environmental conditions such as strong sunlight, fog, cold or hot temperatures.



**Long Term
Reliability**



**Maximized
Productivity**



User Friendly

An LED helps the installer with the alignment of the emitter and receiver. Installation is simplified with an M12 connector and direct connection to the door controller.

Diagnostic Warning

Increased safety is provided by a built-in sensor test function, which is designed to switch off the emitter when the door is fully open, as stated by the norms EN12445, EN12453, EN12978.

Harsh Environment

The BFD40E, with its stylish and durable ABS-polycarbonate plastic housing which protects against water jets (IP65), doesn't need to be connected to earth (grounded).

Benefits

- Any weather/light condition
- Contactless recognition of obstacles (even very thin ones)
- The whole door height is protected
- Waterproof
- Easy mechanical adjustment
- Wide temperature range: -20 to +55°C (-4 to 131°F)
- Maintenance free



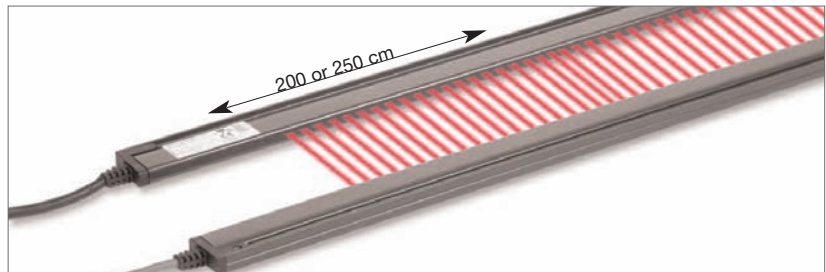
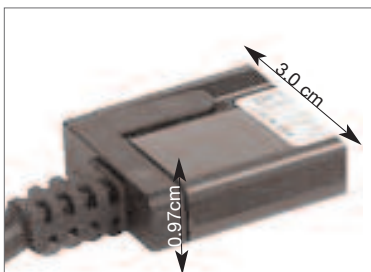
Applications

- Sectional doors
- High speed rolling doors
- Fire doors
- Car wash doors
- Cold storage doors
- Freight elevator doors



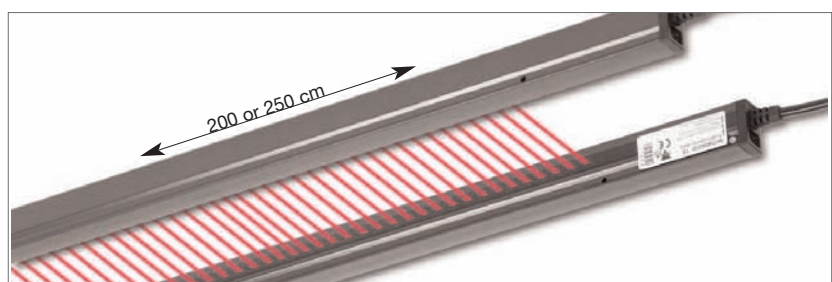
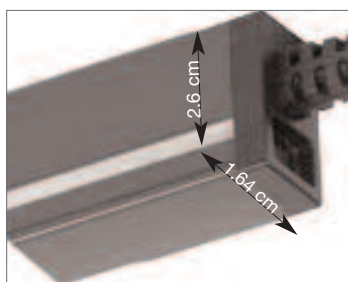
Two housing versions packed with innovative features, to work with various types of industrial doors

- Test input
- Sequential beam blanking
- Power supply: 10 to 30 VDC
- Protected height up to 2.5 m (8.2')
- Long operating distance (12m/39.4')
- Configurable NO/NC, NPN/PNP, voltage free transistor output



Choose your Item for Edge Sensing

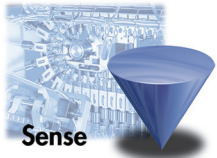
Code	Height	Diodes/Beams	IP Rating	Output
BFD 40 E 200	200 cm / 6.6'	40	IP54	Configurable NO/NC, NPN/PNP, voltage free transistor output
BFD 40 E 200 I	200 cm / 6.6'	40	IP65	
BFD 40 E 250	250 cm / 8.2'	40	IP54	
BFD 40 E 250 I	250 cm / 8.2'	40	IP65	



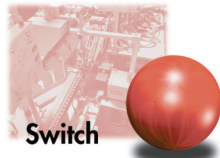
Choose your Item for Side Sensing

Code	Height	Diodes/Beams	IP Rating	Output
BFD 40 S 200	200 cm / 6.6'	40	IP54	Configurable NO/NC, NPN/PNP, voltage free transistor output
BFD 40 S 200 I	200 cm / 6.6'	40	IP65	
BFD 40 S 250	250 cm / 8.2'	40	IP54	
BFD 40 S 250 I	250 cm / 8.2'	40	IP65	

The Complete Product Package



Sense
 Inductive and Capacitive Sensors
 Photoelectric Sensors
 Inductive Loop Detectors
 Ultrasonic Sensors
 Motion/Presence Vision Sensors
 Radar Sensors
 Conductive Level Sensors
 Limit Switches
 Magnetic Switches



Switch
 Solid State Relays
 Hybrid Relays
 Solid State Contactors
 Contactors and Overloads
 Manual Motor Starters/Protectors
 Motor Controllers
 Variable Frequency Drives
 Electromechanical Relays
 Push Buttons and Pilot Devices



Control
 Energy Management
 Solar Energy Monitoring
 Switching Power Supplies
 Digital Panel Meters
 Timers and Counters
 Monitoring Controls
 Temperature Controllers



Safety
 Control Modules
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Our worldwide sales offices make us an ideal business partner, *especially for manufacturers of exported machinery*, as our products are available locally and they are RoHS and CE marked.

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