

## Model JB1200 Fiber Optic Junction Box

DavidsonSensors™ provide the safest, most reliable and cost-effective instrumentation for harsh industrial applications.

This product data sheet describes Model JB1200 junction box. Junction boxes are typically NEMA enclosures that have special provisions for making fiber optic connections. Junction boxes range in size for termination of 1 to 32 optical fibers.

### Fiber Optic Sensing Advantages

Fiber optic sensing offers a number of advantages for measurement in harsh industrial environments. DavidsonSensors™ are intrinsically-safe, immune to electromagnetic interference, and suitable for continuous use at temperatures up to 1000°F.

Although fiber optic sensing systems can be used effectively even in benign environments, Davidson fiber optic sensing systems offer significant technical advantages when used in the following environments:

- Hot, Corrosive Environments
- Explosion Hazardous Areas
- High EMI Areas

Fiber optic sensing systems eliminate or mitigate many of the following common problems:

- Failure and Drift due to Hydrogen Permeation
- Drift due to Fill-Fluid Leaks
- Failure due to Lightning
- Problems due to Ground Potential
- Noise due to EMI/RFI
- Costs of Nitrogen Purge Systems

### Tagging

Stainless steel tags will be permanently attached to each junction box upon request.



**8 Channel Junction Box  
Fusion Splice Termination**

### Physical Specifications

#### Enclosure

NEMA 4 or NEMA 4X

#### Safety (Cable)

Intrinsically-safe and suitable for use in:  
Class I, Division 1, Groups B, C, and D  
Class II, Division 1, Groups E, F, and G  
Class III, Division 1

### Other Applications

For information about other Davidson products, see [www.davidson-instruments.com](http://www.davidson-instruments.com)

### Guide to Configuring a Fiber Optic Sensing System

For information to assist you in planning a fiber optic sensing system, see [www.davidson-instruments.com](http://www.davidson-instruments.com)

**Ordering Data**

Model Number	JB1200	
Class	A	NEMA 4
	B	NEMA 4X
Size (l x w x d)	1	4 x 4 x 4
	2	4 x 4 x 4
	4	4 x 4 x 4
	8	4 x 4 x 4
	16	4 x 4 x 4
	32	4 x 4 x 4
Termination	A	Fusion Splice
	B	ST Bulkhead
	C	Rugged Bulkhead
Other Specifications*	0	No
	1	Yes

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\* Tagging, documentation, other instructions etc.

**Ordering Data Worksheet**

Unit Number	Model Number	Class	Size	Termination	Other Specifications
1	JB1200				
2	JB1200				
3	JB1200				
4	JB1200				
5	JB1200				