

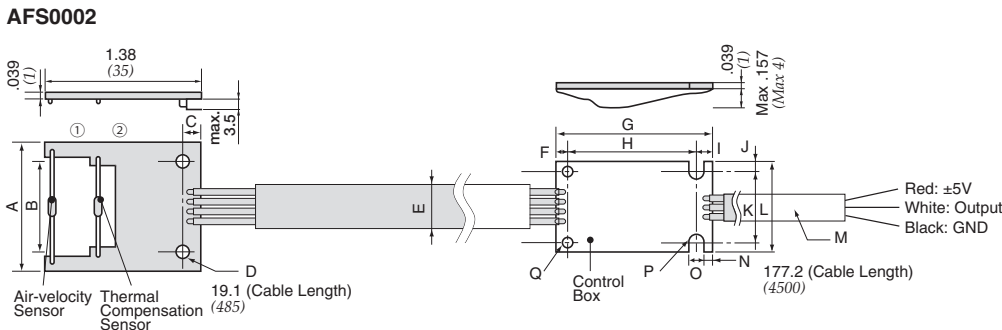
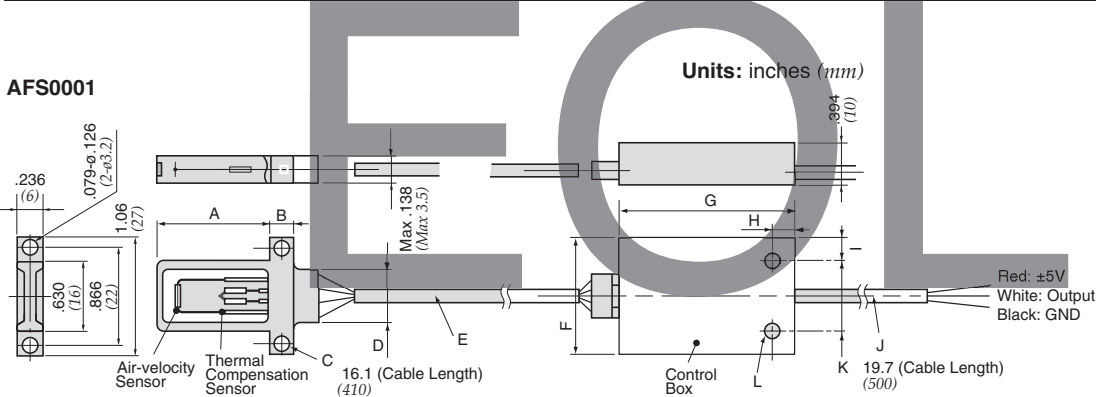
features

- The platinum thin-film thermal sensor realizes high and long-term stability
- The small platinum thin-film thermal sensor and an even temperature differential operating circuit ensure a quick response
- The built-in temperature compensation circuit assures correct values regardless of air temperature. The air velocity sensor and air velocity temperature compensation sensor are sensors with the same characteristics to enable correct temperature compensation
- Products have no rotating mechanism and are resistant to vibrations
- Products are compact and light, and are easy to be installed in equipment

dimensions and construction

| Size | Dimensions inches (mm) | | | | | | | | | | | |
|---------|------------------------|-------------|-----------------------------------|--------------|----------------------------|--------------|--------------|---------------|---------------|----------------------------|--------------|-----------------------------------|
| | A | B | C | D | E | F | G | H | I | J | K | L |
| AFS0001 | .984 (25) | .197 (5) | 2- ϕ .126 (2- ϕ 3.2) | .512 (13) | ϕ .118 (ϕ 3) | .984 (25) | 1.57 (40) | .217 (5.5) | .177 (4.5) | ϕ .118 (ϕ 3) | .630 (16) | 2- ϕ .126 (2- ϕ 3.2) |

| Size | Dimensions inches (mm) | | | | | | | | | | | | | | | | |
|---------|------------------------|--------------|-------------|-----------------------------------|--------------|-------------|--------------|----------------|---------------|-------------|--------------|--------------|---------------------|----------------|----------------------|-----------------|-----------------------------------|
| | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q |
| AFS0002 | 1.10 (28) | .787 (20) | .157 (4) | 2- ϕ .126 (2- ϕ 3.2) | .394 (10) | .118 (3) | 1.38 (35) | 1.12 (28.5) | .138 (3.5) | .079 (2) | .630 (16) | .787 (20) | .197 (ϕ 5) | .069 (1.76) | ϕ .126 (3.2) | R.126 (R3.2) | 2- ϕ .079 (2- ϕ 2.0) |



ordering information

| | | |
|------|---|-------------|
| AFS | - | 0001 |
| Type | | Type Number |
| | | 0001 |
| | | 0002 |

applications and ratings

| Test Items | AFS-0001 | AFS-0002 | Remarks |
|-------------------------------------|------------------------------|-----------|--|
| Detection Object | Clean air, ordinary pressure | | |
| Detection Range (m/s) | 0 - 15 | | |
| Detection Accuracy (m/s) | ±0.3% | ±0.5% | 0.5 - 1.0 (less than 1.0) m/s |
| | ±0.5% | ±0.7% | 1.0 - 4.0 (less than 4.0) m/s |
| | — | ±2.0% | 4.0 - 12 (less than 12) m/s |
| | — | ±3.0% | 12 - 15 m/s |
| | ±1.5% | — | 4.0 - 15 m/s |
| Power Supply Voltage (V) | 5.0 ± 0.25 | | |
| Current Consumption (A) | 0.2 maximum | | Start-up time is excluded |
| Output Voltage (V) | 1.8 - 3.2 | 1.9 - 3.5 | Non-linear analog (see Output Characteristics Diagram) |
| Output Impedance (Ω) | 100 typical | | |
| Start-up Time (S) | 15 typical | | |
| Operating Temperature Range (°C) | 0 - +60 | | |
| Operating Humidity Range (%RH) | 30 - 85 | | Dew condensation not allowed |
| Storage Temperature Range (°C) | -10 - +70 | | |
| Storage Humidity Range (%RH) | 30 - 85 | | Dew condensation not allowed |
| Temperature Compensation Range (°C) | 0 - +60 | | |

environmental applications

Output Characteristics Diagram

