

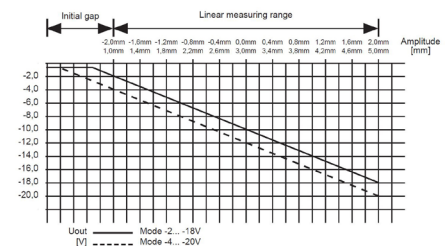
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16mm Eddy Current Sensor

Non-contact sensor designed for critical turbomachinery applications such as steam, gas and hydro turbines, compressors, pumps and fans to measure radial and axial shaft dynamic displacement; position, eccentricity and speed/key.



| Dynamic Performance | |
|--------------------------------------|--|
| Sensitivity/Linearity | 4 V/mm (101.6 mV/mil) $\leq \pm 1.5\%$ |
| Air Gap (Center) | Approx. 2.7 mm (0.11") Nominal |
| Long Term Drift | < 0.3% |
| | Range: Static |
| | Dynamic |
| Target | |
| Target/Surface Material | Ferromagnetic Steel (42 Cr Mo4 Standard) |
| Maximum Surface Speed | 2,500 m/s (98,425 ips) |
| Shaft Diameter | $\geq 80\text{mm}$ |
| Environmental | |
| Operating Temperature Range | -35 to 150°C (-31 to 302°F) |
| Temperature Error | <4%/100°K (API 670 Compliant) |
| Pressure Resistance to Sensor Head | 10,000 hPa (145 psi) |
| Shock and Vibration | 5g @ 60Hz @ 25°C (77°F) |
| Physical | |
| Material | Sleeve – Stainless Steel, Cable – PTFE |
| Weight (Sensor & 1M Cable, no Armor) | ~200 grams (7.05 oz) |



| Compliance and Certifications | |
|-------------------------------|--|
| CE | 2014/30/EU (EN 61326-1) 2014/34/EU 2011/65/EU |
| ATEX | EN 60079-0 EN 60079-11 |
| IEC-Ex | IEC 60079-0 IEC 60079-11 IEC 60079-26 |
| CSA | CAN/CSA-C22.2 NO. 0-M91 CAN/CSA-C22.2 NO. 157-92 CAN/CSA-C22.2 NO. 213-M1987 CAN/CSA-E60079-15-02 (R2006) CAN/CSA-C22.2 NO. 25-1966 CAN/CSA-C22.2 NO. 61010-1-04 ANSI/UL Standard 913-2004 ANSI/UL Standard 1604-1995 UL 60079-15 2002 UL 61010-1 |

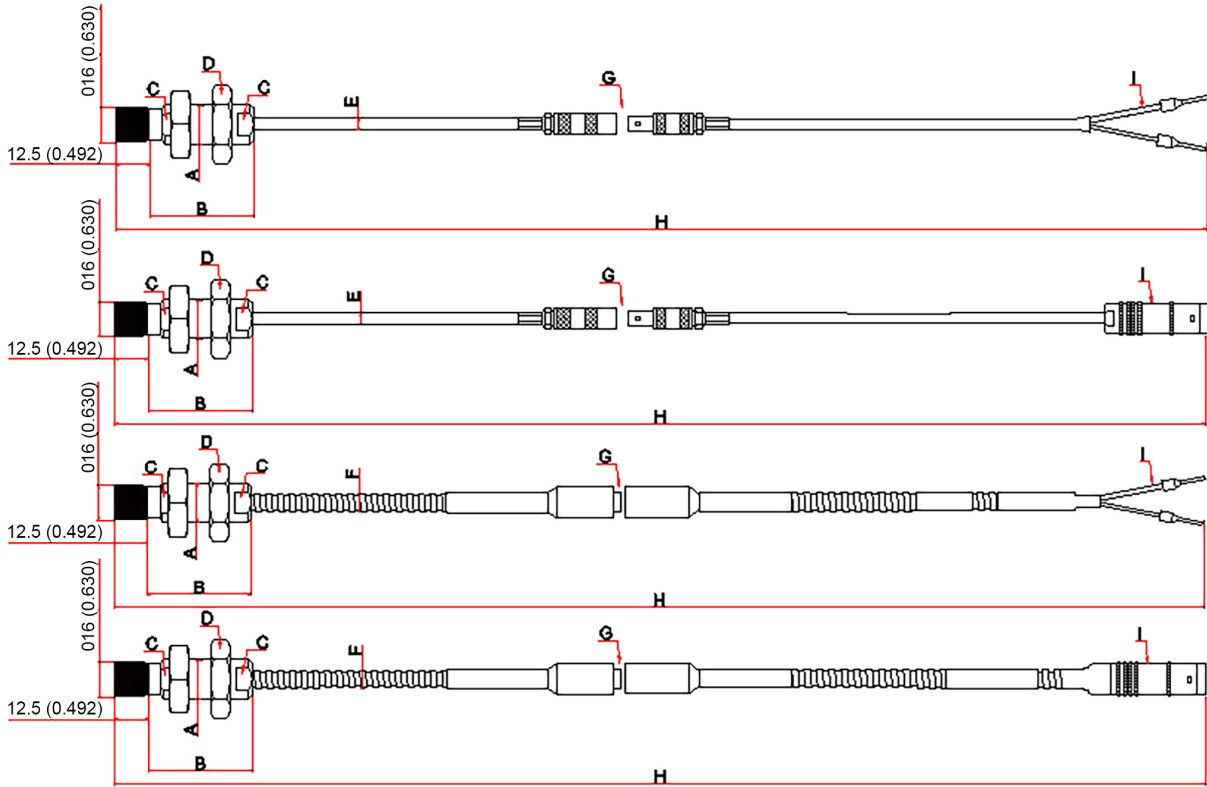
Hazardous Area Approvals

| Compliance and Certifications | |
|-------------------------------|--|
| ATEX / IEC-Ex | Area classification depends on converter, see converter documentation for details, sensor temperature classification: T6: Ta ≤ 84°C T4: Ta ≤ 114°C T3: Ta ≤ 160°C |
| CSA | Area classification depends on converter, see converter documentation for details, sensor temperature classification: T6: Ta ≤ 64°C T4: Ta ≤ 114°C T3: Ta ≤ 160°C |
| Non-sparking (nA) | |
| CSA | Area classification depends on converter, see converter documentation for details, sensor temperature classification: T6: Ta ≤ 64°C T4: Ta ≤ 114°C T3: Ta ≤ 160°C |

Dimensions

PR6424/xxx-xxx

Note: All dimensions shown in millimetres (inches)



- A. Case thread, M18x1.5 or 3/4-16UNF
- B. Case Length
- C. Wrench flats. SW 16 mm
- D. SW 27 mm
- E. Standard cable diameter 2.8 mm (0.11 in), minimum bending radius 25 mm (0.984 in)
- F. Armored cable diameter 6 mm (0.236 in), minimum bending radius 35 mm (1.378 in)
- G. Optional Adapter Plug after 1m cable from Sensor
- H. Cable Length (Tolerances 0...+10%)
- I. Lemo connector (male), 11.0 mm (0.433.in) diameter or open cable end

Ordering Information

| Order Matrix | | PR6424 / | X | X | X | - | X | X | X |
|-------------------------------------|--|----------|--------|---|---|--------|---|---|--------|
| Sleeve Thread | M18x1.5 3/4"-16 UNF | 0 1 | | | | | | | |
| Armored Cable | WITH WITHOUT | | 1 0 | | | | | | |
| Total Sensor Length C=Cx +12.5mm | 0(Cx=40mm), 1(50), 2(60), 3(70), 4(80), 5(90), 6(100), B(150), G(200), M(250), R(290) | | | X | | | | | |
| Adaptor Plug | WITH WITHOUT | | | | | 0 1 | | | |
| Total Cable Length | 0(4m), 1(5m), 3(8m), 4(10m) | | | | | | | X | |
| Cable End | LEMO OPEN | | | | | | | | 0 1 |

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