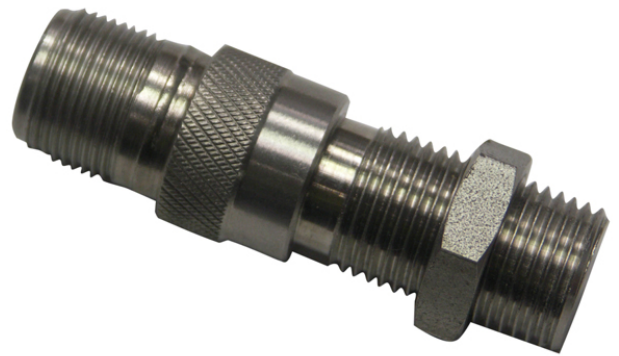


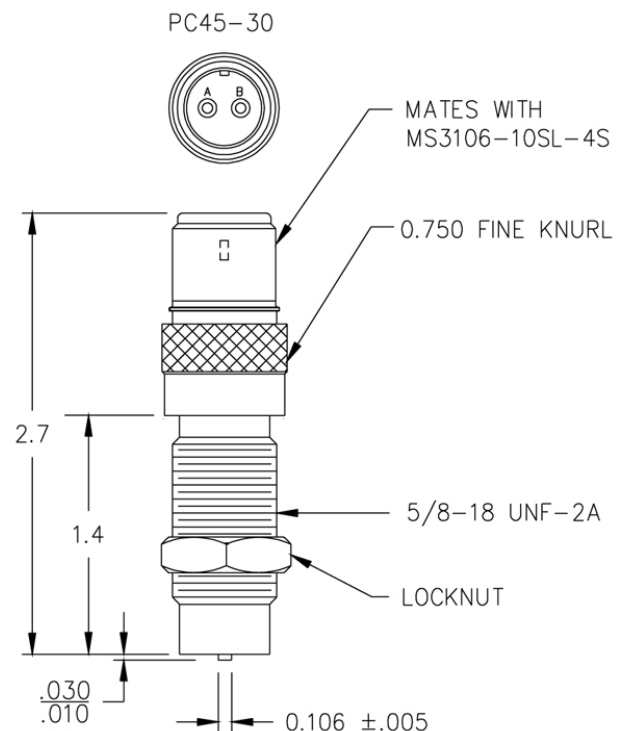
- **Atex approved Variable Reluctance Sensor**
- **Mates with MS3106-10SL-4S connector**
- **Atex approved Intrinsically safe**
- **Ex ia IIC or IIB T6 to T3**



Variable reluctance or magnetic pickoff sensors are ideal for measuring high frequencies in harsh operating environments. The sensor is constructed with a long life magnet and a single coil of wire, encased in a potted stainless steel body. Upon the movement of a target such as a toothed gear wheel the change in the local magnetic field induces a voltage in the coil, the frequency of which can be measured. Typically the target should be a fraction of a millimetre from the sensor to give reliable sensing. The PC45-30 intrinsically safe sensor has integral circuitry to clamp the output to within the prescribed safe power and voltage levels, and the coil is wound for zero inductance and capacitance.

We can make many specialist variations of sensors on short lead times, please contact sales@switchenterprise.co.uk for more details.

Typical Sensing range	0.005"
Output Voltage	1.2 to 1.4 V pk to pk
Coil Resistance	1200 Ohms +/- 10%
Dielectric Strength	500Vac Pin to Case
Operating Temperature	-50° to +120° C
Frequency	20Khz typically
IP rating	Epoxy sealed
Body material	300 Stainless Steel
Threading	5/8 x 18 UNF-2A
Connection	Connector MS3106-10SL-4S
Approvals	Ex ia IIC or IIB T6 to T3 Class I,div.1, Group A,B,C,D Class II div. 1 Group E,F,G:Class III Class I, Zone O, IIC



Stock No.	Ref	Type
SEL8831009	MSI PC45-30	Connector
SEL8831013	C/J2-1-T2	Lead 12" Cable