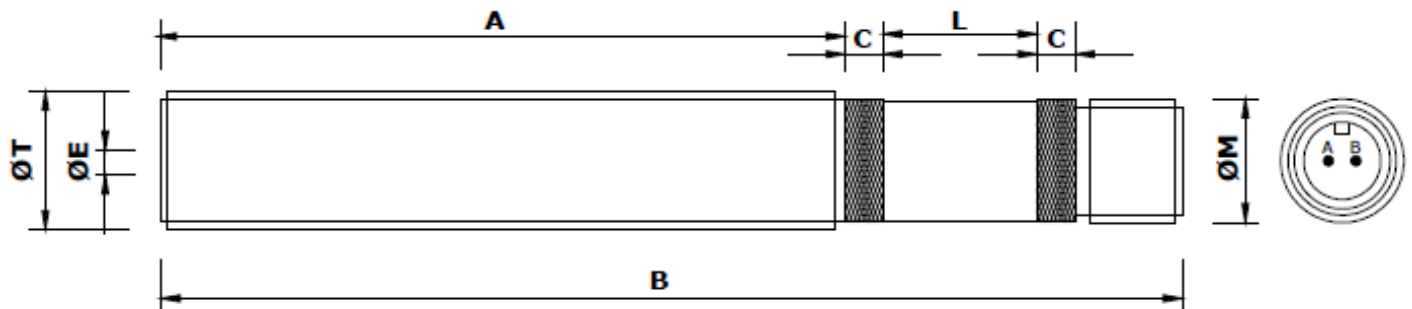


# Intrinsically Safe

Plug and Socket Type  
Speed Sensor

# MPEX3889S Magnetic Pickup



## Mechanical specification

dimensions in mm unless otherwise stated

<i>Dimension</i>		<i>Part number</i>
<b>A</b>	89	
<b>B</b>	133 nominal	
<b>C</b>	5 medium diamond knurl	
<b>D</b>	N/A - solid stainless steel sealed sensing face, suitable for permanent liquid immersion	
<b>L</b>	20 plain area for affixing label	
<b>ØE</b>	Internal 3.17 pole piece	
<b>ØM</b>	5/8" x 24 tpi UNEF-2A (connector thread)	
<b>ØT</b>	3/4" x 16 tpi UNF-2A (body thread)	<b>MPEX3889S-I</b>
<b>or</b>	M18 x 1.5 6g	<b>MPEX3889S-M</b>
<b>Main body material</b>	Stainless Steel	
<b>End Bobbin face</b>	Polypropylene	
<b>Locknut</b>	1 off as standard	

## Electrical specification

**Resistance** 450Ω nominal @ 20°C

**Inductance** 135mH nominal

**Operating temperature range** -40°C to + 120°C [see note 2]

**Voltage output** Clamped at 4V peak nominal, 4.97V maximum

**Minimum speed** tba mm/second [see note 1]

**Polarity** Pin A negative with respect to Pin B as target approaches

**Termination** MS (screw) 10SL4P (2-pin integral plug)

**Mating connector** MS (screw) 10SL4S (2-pin line socket)

Notes:

1. Minimum speed in mm/second to generate 100mV peak to peak typical output measured across a 10K load using a 60 tooth mild steel gear wheel of Ø6", rotating at 1000 rpm and with an air gap setting of 0.01".
2. The permitted ambient temperature range is dependent on temperature class, refer to T<sub>a</sub>.
3. Complies with the Dielectric Strength requirements of EN60079-11, Section 10.3.

## Entity parameters

U, I and P for the selected barrier must not exceed the values below:

U <sub>i</sub> (V)	I <sub>i</sub> (mA)	P <sub>i</sub> (W)	C <sub>i</sub> (nF)	L <sub>i</sub> (μH)
30	160	0.75	0	0

## Ambient Temperature T<sub>a</sub>

The equipment is certified for use in ambient temperatures in the range of -40°C to +120°C and should not be used outside this range. The range is restricted according to temperature class as follows:

T6	T5	T4	T3
-40°C to +57°C	-40°C to +72°C	-40°C to +107°C	-40°C to +120°C

# Applicable Special Conditions

None applicable.

## Approval

Ex ia IIC T6...T3 Ga

Baseefa19ATEX0151X

IECEX BAS 20.0002X

MPEX Series

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