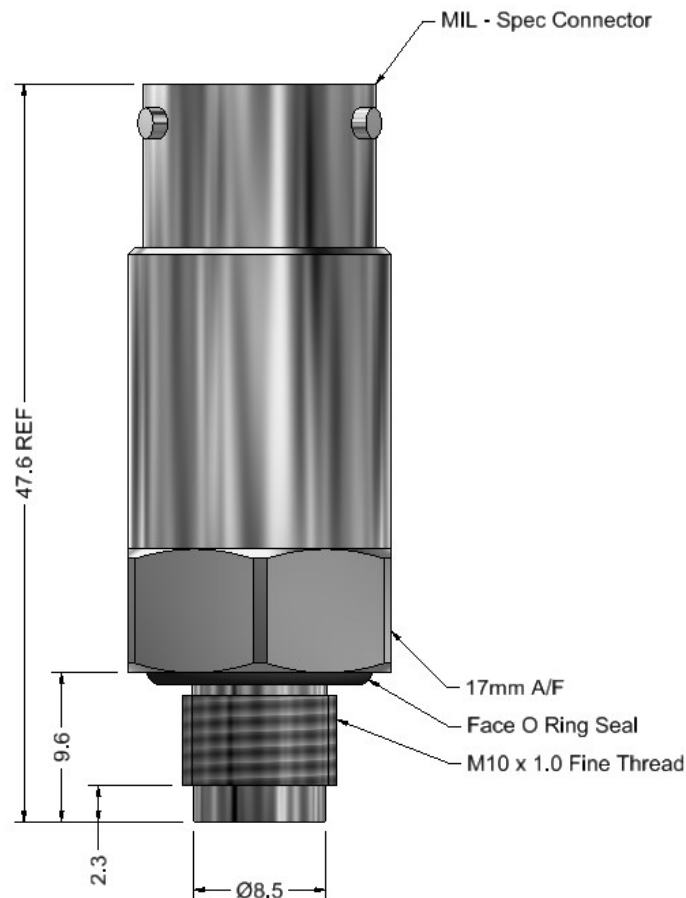


# XE-0050-0010

## Data Sheet

**IMPS (In-Mould Pressure Sensor) — 0 to 6 Bar Absolute High  
Temperature 180°C (120°C compensated) M10 Thread**



### Pressure Specifications

<b>Pressure Range</b>	0—6 bar (Absolute)
<b>Over Pressure</b>	9 bar
<b>Burst Pressure</b>	18 bar
<b>Pressure Port O-Ring</b>	EPDM
<b>Face Type</b>	Semi-Flush
<b>Housing Material</b>	Titanium
<b>Connector Type</b>	MIL-C-26482, 6 Pin



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### Input Specifications

<b>Electrical Excitation</b>	5—15VDC
<b>Input Current</b>	< 10mA
<b>Input Impedance</b>	> 3500 $\Omega$ typ.
<b>Output Impedance</b>	> 3500 $\Omega$ typ.

### Output Specifications

<b>Span</b>	6 bar
<b>NLH @25°C (BSL) typ.:</b>	$\pm 0.25\%$ FS typical ( $\pm 0.35\%$ FS max.)
<b>TC zero point and span typ.:</b>	$\pm 0.02\%$ FS/°C

### Environmental Specifications

<b>Compensated Temperature</b>	20°C—120°C
<b>Ambient Temperature</b>	180°C
<b>Vibration</b>	50g maximum
<b>IP Rating</b>	IP55 (IP67 with a mounted female connector)

### Electrical Connections—see Figure 1

<b>A</b>	+ EXC
<b>B</b>	+ SIG
<b>C</b>	- SIG
<b>D</b>	- EXC
<b>E</b>	Not connected
<b>F</b>	Not connected
<b>Cable</b>	10 metres — High Temperature

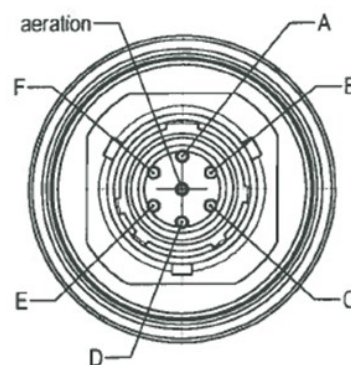


Figure 1—Pin View

### XE-0050-0010 includes:

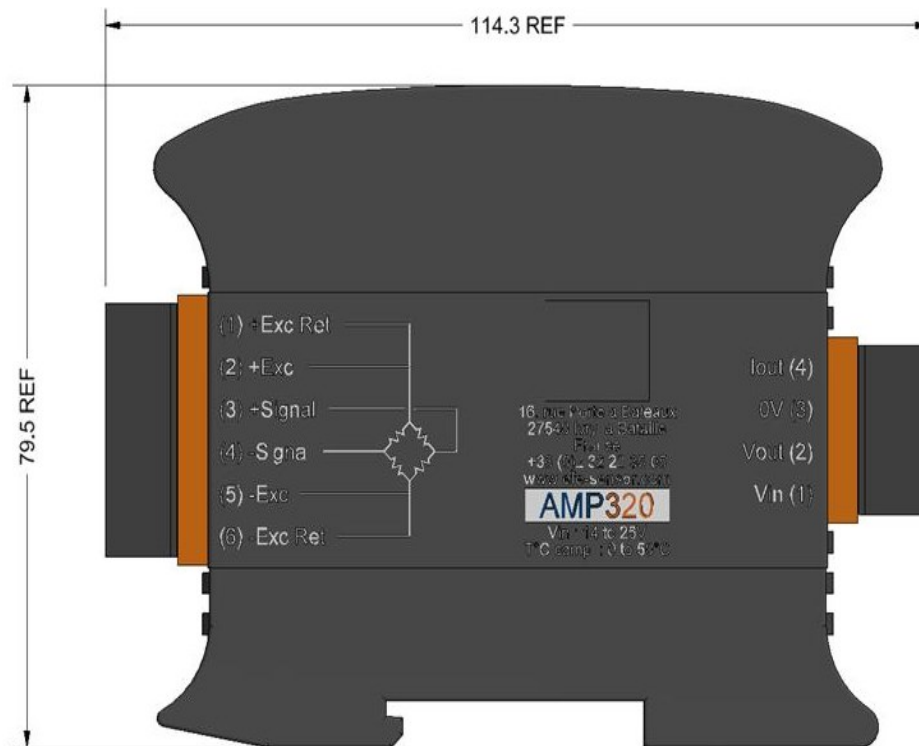
	Part Number
<b>IMPS—Sensor 0 to 6 Bar Absolute High Temperature — 180°C (120°C compensated) M10 Thread</b>	EL-35-0040
<b>High Temperature MIL connector with 10m Teflon cable</b>	EL-35-0040-01
<b>DIN Rail Amplifier — for specifications see EL-35-0040-02 data sheet</b>	EL-35-0040-02
<b>Manufacturer Calibration and Setup</b>	



# EL-35-0040-02

## Data Sheet

**DIN Rail Amplifier AMP320: 0—10V and 4—20mA Output**  
**Component of XE-0050-0010**



### Environment Specifications

Operating Temperature Range	0—70°C
Minimum Storage Temperature	-40°C
Maximum Storage Temperature	85°C
IP Rating	IP31



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## Electrical Specifications

<b>Mounting Type</b>	DIN rail
<b>Power Supply</b>	14—26VDC
<b>Typical Current Draw</b>	30mA (no load applied input or output—power supply must source 150mA min)
<b>Output Resistance (Voltage)</b>	< 1 $\Omega$ (Ohms)
<b>Maximum Output Resistance (Current)</b>	700 $\Omega$
<b>Minimum Sensor Resistance</b>	100 $\Omega$
<b>Bandwidth</b>	1KHz
<b>Common Mode Rejection Ratio</b>	120 dB
<b>Output Span Range</b>	-10—10% of rated output
<b>Output Zero Range</b>	-10—10% of rated output
<b>Gain Drift with Temperature</b>	0.0025% FS/°C
<b>Gain Non-Linearity</b>	-0.01 x 0.01% of FSR
<b>Zero Drift with Temperature</b>	0.0025% FS/°C

EL-35-0040-02 is used in conjunction with XE-0050-0010

Please see XE-0050-0010 data sheet for more information

