ECLIPSE® • *OEM PRESSURE TRANSDUCER*

APPLICATIONS

- HYDRAULIC / PNEUMATIC CONTROLS
- AIR COMPRESSORS
- ENERGY MANAGEMENT: "SMART" COMPRESSORS, REFRIGERATION/ CHILLER CONTROL
- PROCESS CONTROL SYSTEMS
- ENGINE CONTROLS AND MONITORS

The Eclipse® is designed for high volume OEM's needing a low cost pressure transmitter for industrial or other heavy duty applications. The Eclipse's combination of rugged packaging, internal signal amplification and price make it ideal for many applications.

The pressure media is contained by a brazed assembly of stainless steel. There are no hidden O-rings or elastomers containing the media. A plated steel case protects the internal electronics.

It is available with either a 0.5 to 4.5 volt or 4 to 20 mA output. The 4 to 20 mA output is useful for applications where electrical noise may be a concern. Many units are CE compliant.

FEATURES	*BENEFITS*
• Voltage or current output	• Flexibility for the designer
• 15 PSIG through 7100 PSIS ranges	• Suitable for many applications
• High performance at low price	• Reduces OEM system cost
• CE versions available	• Ready for Europe
• Weatherproof type connector	• High reliability and user flexibility
• Reverse polarity protection	• Not damaged by reversed wiring
• Low excitation voltage	• Suitable for ORV or marine use
• IP65 sealed steel case	• Complete environmental protection for electronics

TECHNICAL SPECIFICATIONS

RANGE

	0-15, 25, 50 PSIG 0-100, 250, 500, 1000, 2000, 3000, 5000, 7100 PSIS 0-1, 2, 4, 7 bar g (0-10, 15, 20, 35, 50, 100, 200, 350, 700 bar s)

PHYSICAL

Proof Pressure	1.5 x rated range
Burst Pressure	5 x rated range
Material in Contact With Media	300 series stainless steel, braze compound
Shock	50 g's peak (5 milliseconds)
Vibration	Meets MIL-STD-810-C, Figure 514.2-5, Curve AK, 20.7 g rms minimum

ELECTRICAL

	Voltage output	Current output
Full Scale Output	4.00 Vdc nominal (0.5 - 4.5 Vdc)	16 mA into 0 to 1400 Ω loop resistance (4-20 mA)
Zero Output	0.5 V nominal	4 mA nominal
Excitation	5.0 Vdc ± 0.25 Vdc @ 20mA	10 to 40 Vdc (linear derating to 35 Vdc from 25˚C to 100 C˚)
Reverse Polartiy Protection	Yes	
Insulation Resistance	1000 MΩ @ 50 Vdc	
Electrical Connection	Standard Packard Metri-Pack™ Requires Packard #12065287 mating connector, not included. Optional Hirschmann connector, mate included.	

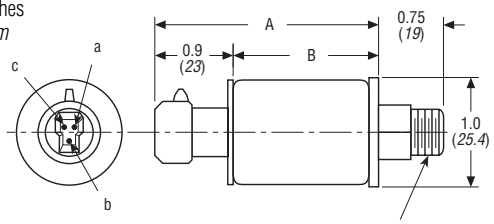
PERFORMANCE

Accuracy	±1% of FSO from best fit straight line including effects of nonlinearity, hysteresis and nonrepeatability
Operating Temperature Range	-40˚ to 105˚C (-40˚ to 221˚F)
Compensated Temperature Range	-1˚ to 82˚C (30˚ to 180˚F)
Total Error	±4% of full scale. Includes the effects of zero output error, calibration error, temperature, nonlinearity, hysteresis, and repeatability.

DIMENSIONS

xx.xx = inches
(xx.x) = mm

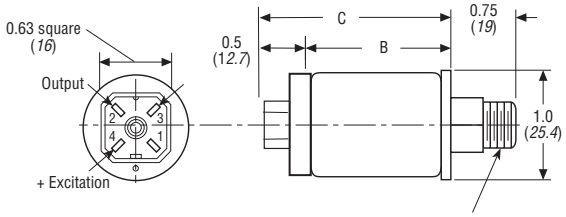
Eclipse with Packard



Mates with No.12065287
Packard Metri-pack connector

PSI: 1/8-27 NPT, 5/8 (*15.9*) Hex
bar: G 1/4 (16) Hex

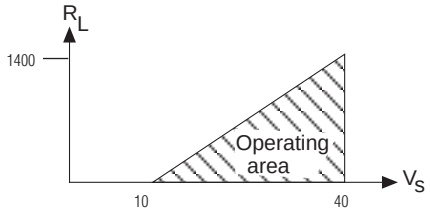
Eclipse with Hirschmann



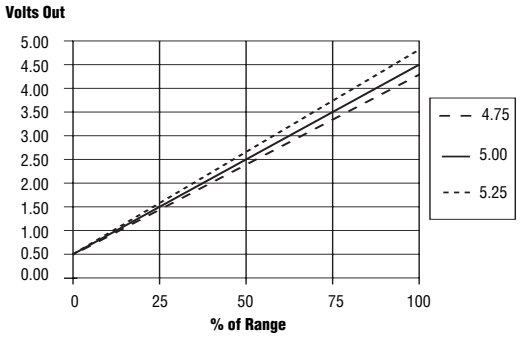
PSI: 1/8-27 NPT, 5/8 (*15.9*) Hex
bar: G 1/4 (16) Hex

Dimensions:		
	Voltage	**Current**
A	2.4 (61)	2.6 (66)
B	1.5 (38)	1.7 (43)
C	2.0 (51)	2.2 (56)

Load resistance in current loop



Ratiometric Output



PACKARD CONNECTOR PINS

	Voltage	Current
a	+ Excitation	+ Excitation
b	Output	- Excitation (Return)
c	Common	NC

HIRSCHMANN CONNECTOR PINS

	Voltage	Current
Pin 1	NC	NC
Pin 2	Signal Output	NC
Pin 3	Common	- Excitation (Return)
Pin 4	+ Excitation	+ Excitation