



MCS-050-DIFFB

Description & Specifications



Part # **MCS-050-DIFFB-xxx**

(-xxx*= optional wire length for Molded Cable)

Description

The **MCS-050-DIFFB** sets the price and performance standard for differential pressure transducers used in demanding environments.

The sensor exceeds the latest heavy industrial CE requirements including surge protection and reverse polarity protection. The amplified and mV output pressure transducer has two pressure ports for high and low pressures and all wetted parts are made of 316L stainless steel.

- Diffusion silicon-filled oil core with stainless steel 316L isolation diaphragm
- Sensors are fully tested for temperature accuracy requirements
- Full solid insulation, high stability, reliability
- Compact size
- Liquid, gas and other media differential pressure measurement

Specifications

Sensor Type	Differential Pressure Sensor
Differential Pressure Range	0-50 psi
Housing	wetted part: 316L, (balance: 304L)
Environmental Protection	IP66
Operating Temperature.....	-4.0°F to 185°F (-20°C~85°C)
Compensated Temperature ...	+32.0°F to +122.0°F (-0°C~50°C)
Storage Temperature.....	-40.0°F to 221°F (-40.0°C~105°C)
Accuracy (Room Temp).....	± 0.25% F.S.
Burst Pressure.....	250 PSI (At either port)
Overload Pressure	150 psi (at either port)
Differential Overload Pressure..	150 psi
Pressure Connection	1/4 NPT (female)
Insulation Resistance	≥ 100M Ω @ 100 VDC
Surge	500V {line to ground}
Shock Resistance.....	20g, 11ms half sine wave
Power supply (U+).....	5 ± 0.25 VDC
Output Load.....	≥10K Ω
Output Signal.....	0.5~4.5V Ratio
Over Voltage.....	16 VDC
Electrical Connection.....	Packard Connector

*Optional Cable:

Replace -xxx with: **20M, 40M or 60M**

Length.....**20 ft (6m), 40 ft (12m) or 60 ft (18m)**
(available in longer lengths).



NOTE: IF -XXX IS OMITTED, MCS-050-DIFB TRANSDUCER IS SHIPPED WITHOUT THE OPTIONAL MOLDED CABLE.

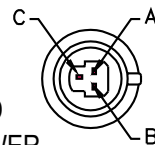
The cable has a removable Packard connector to provide easy serviceability. The wire is sealed and crimped to the Packard connector providing a molded liquid tight environment and strain relief.

Connector.....	Packard with Silicone seal
Length.....	20 ft (6m), 40 ft (12m) or 60 ft(18m)
Type.....	3 conductor, 20 awg stranded
Shield.....	Foil shield with 25% overlap
Drain.....	Stranded tinned copper drain



WARNING
Wiring as follows:

- PIN A - Black - GND
- PIN B - Red - POWER
- PIN C - White - SIGNAL OUTPUT



Packaging

Weight - Sensor (no cable) 1.15 lb

Ship Dimension 10" x 10" x 2"

Weight - Sensor (with cable) with 20 ft(6m) 1.90lb (approx)

Weight - Sensor (with cable) with 40 ft(12m) 2.50lb (approx)

Weight - Sensor (with cable) with 60 ft(18m) 3.15lb (approx)

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