



High-Sensitivity, Low-Pressure Design IP67 Integral Deutsch 2- and 3-Pin



DESCRIPTION

IP67 Integral Deutsch connector for maximum environmental protection.

Equipped with either a 2- or 3-pin Deutsch connector and compliant with IP67 standards, our 785 pressure switch is a miniature diaphragm-operated design for applications requiring high sensitivity operation. This unique model thrives in tough environments containing oil, fuel, water, dust, vibration or shock.

FEATURES

- Fixed pressure
- Diaphragm
- IP67 compliant
- Integral pressure port snubbing
- NEMA Type 4 rating

APPLICATIONS

- Off road equipment
- Industrial OEM equipment
- Train braking systems
- Packaging equipment
- Compactors
- Compressors
- Fuel systems
- Pneumatic systems

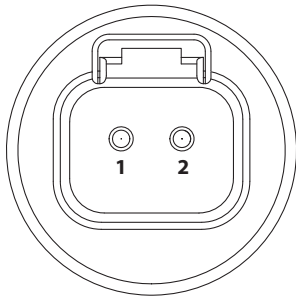
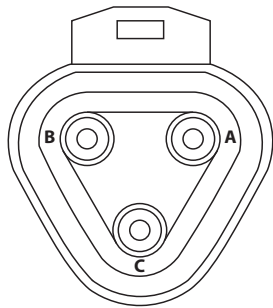
STANDARD SPECIFICATIONS

| Pressure Connection | Electrical | Electrical Connection | Seal Materials | Materials | Temperature Range | Shipping Weight |
|---------------------|---|---------------------------------|-----------------|------------------------------|--|--------------------|
| 1/4"-18 NPT | Snap-action Electrical Switch Listed by UL and CSA | Single Pole Single Throw (SPST) | Fluorosilicone | Hydraulic Module Housing 303 | -40°F to + 250°F | Approximately 3 oz |
| 1/8"-27 NPT | | | Contact Factory | Stainless Steel | -40°C to + 120°C | |
| 9/16"-18 UNJF-3A | At 28 VDC: 7 Amps Resistive; 4 Amps Inductive; 2 1/2 Amps Lamp | Single Pole Double Throw (SPDT) | | Electric Module Housing | (Temperature Range Change with Diaphragm Material Selection) | |
| Options Available | | | | Polyphenylene Sulfide (PPS) | | |
| | Gold Contact Switches available for dry circuit applications | | | | | |

OPERATING PRESSURE DATA

| Series | Range Indicator | Pressure Range | | Dead Band* | | Max System Pressure | | Proof Pressure | |
|--------|-----------------|----------------|-----------|------------|-------------|---------------------|-----|----------------|-----|
| | | PSIG | BAR | PSIG | BAR | PSIG | BAR | PSIG | BAR |
| 785 | 3 | 7 - 160 | 0.48 - 11 | 2 / 8 | 0.14 / 0.55 | 500 | 34 | 1000 | 69 |

*Interpolate for intermediate pressures

WIRING CONFIGURATION GUIDE


| 3-PIN | | | | | |
|-----------------|----|----|----|----|----|
| | # | A | B | C | # |
| 200 psi & Above | 01 | NC | G | NO | 07 |
| | 02 | NO | NC | G | 08 |
| | 03 | G | NO | NC | 09 |
| | 04 | NC | NO | G | 10 |
| | 05 | G | NC | NO | 11 |
| | 06 | NO | G | NC | 12 |

Below 200 psi

| 2-PIN | | | | |
|-----------------|----|----|----|----|
| | # | 1 | 2 | # |
| 200 psi & Above | 21 | G | NC | 23 |
| | 22 | NO | G | 24 |
| | 37 | G | NO | 39 |
| | 38 | NC | G | 40 |

Below 200 psi

- NO** = Normally Open
NC = Normally Closed
G = Ground (Common)

ORDERING SEQUENCE
Series

- 785 - Set pressures between 7 and 160 PSIG
- See Operating Pressure data table

Pressure Connection

- 6 - 9/16"-18 UNJF-3A (MS33656-E6)
- 2 - 1/4"-18 NPT (Male)
- Consult factory for metric and additional configurations

Pressure Range Number

- See Operating Pressure data table

Type

- DT - IP67 Integral Deutsch

Electrical Wiring

- See Wiring Configuration Guide

Set Pressure to be Held on

- R - Rising Pressure
- F - Falling Pressure

Set Pressure

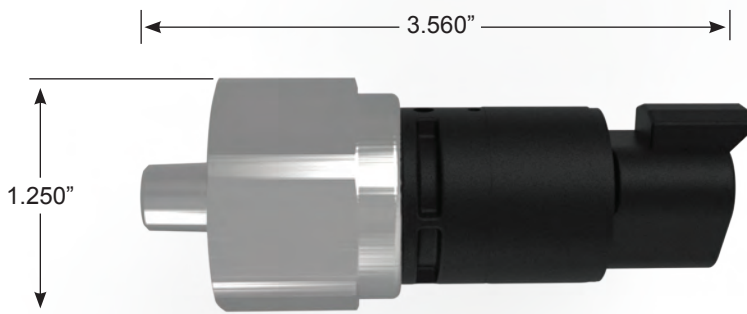
- Specify factory set pressure in 4-place PSIG (Example: 0060 for 60 PSIG)

Diaphragm

- L - Fluorosilicone
- Consult factory for other available materials

Special Items

- Pressure connection
- Diaphragm materials
- Gold electrical contacts for low current applications
- Consult rep or factory for special items and configurations

ENVELOPE DIMENSIONS

ORDERING PROCEDURE

| Series Number | Pressure Port | Range Indicator | Electrical Connector | Electrical Wiring | Set Pressure Held On | Set Pressure | Diaphragm |
|---------------|----------------------|-----------------|----------------------------|-------------------|----------------------|--------------|--------------------|
| 785 | 6 | 3 | DT | 07 | F | 0060 | L |
| | 6 = 9/16"-18 UNJF-3A | 3 = 7-160 PSIG | DT = IP67 Integral Deutsch | 07 = SPDT 3-Pins | F = Falling Pressure | 60 PSIG | L- Fluoro-silicone |

*Insert available option number or letter as required

Example: 785.63-DT07F-0060L