

# 3600 Series

## **Electronic Pressure Switch**

- Exceptional Stability Through Sputtered Thin Film Technology
- ▶ No Moving Parts Highly Resistant to Shock and Vibration
- Ideal for Off-Highway, Mobile, Medical Gas and Demanding Industrial Applications
- Long Cycle Life
- Fully Hermetically Sealed

Built using our proven thin film sensing technology, 3600 Series solid-state pressure switches offer exceptional stability with all welded stainless steel housings to handle rough environments. The 3600 provides very accurate set points with easily customized dead-bands when required. Offered as an ideal alternative to mechanical switches, the 3600 can support highly cyclical and broad frequency response applications. The fully hermetic welded sensing area enables compatibility with a host of liquids and gases. The 3600 modular design feature allows various pressure ports and electrical connections. Switch set & reset points and time delays can be factory programmed per customer specification, and modified in the field with a USB field-programmable interface tool (sold separately).



<0.2% FS/YR	
0.1% FS	
±0.5%	
±1.8% FS max.	
-40°F to +221°F (-40°C to +105°C)	
-40°F to +221°F (-40°C to +105°C)	
Designed for more than 100 M cycles	
See under "Pressure Ports" secton	
17-4 PH Stainless Steel	
See under "Electrical Connector" section	
IP67 (IP65 for electrical code B)	
BSEN 60068-2-6 (FC)	
BSEN 60068-2-64 (FH)	
BSEN 60068-2-27 (Ea)	
CE, PED, RoHS	
1.23 to 1.9 ounce (35 to 53 grams)	
700 mA Low Side Switch, 1000 mA High Side Switch	
6 - 40 Volts (<8 mA without load)	

## **EMC Specifications**

**Emissions Tests:** EN61326-1:2006 and EN61326-2-3:2006

Test Standard	Test	
EN55011:2009 + A1	Radiated Emissions	

Immunity Tests: EN61326-1:2006 and EN61326-2-3:2006			
Test Standard	Test		
EN61000-4-2:2009	Electrostatic Discharge		
EN61000-4-3:2006 + A2	Radiated Immunity		
EN61000-4-4:2012	Fast Burst Transients		
FN61000-4-6:2009	Conducted RF Immunity		



#### 3600 Series Communications Interface - Optional Accessory



The Programming Interface is an easy-to-use configuration tool that allows you to view and modify the following variables for the 3600 Series pressure switches:

- · Set and Reset Points
- Deadbands
- · Time-on and Time-off Delays
- Switching Modes

The Communications Interface connects to your PC via an included USB cable, and allows modification of the switch parameters without the need for a calibrated pressure source. The interface is supplied with the mating cables for electrical connector options B, E, & 8, and software on a USB stick.

Part Number: 564555

# **Pressure Capability**

Pressure Range PSI (Bar)	Proof Pressure (x Full Scale)	Burst Pressure (x Full Scale)
100-300 (7-25)	3.00 x FS	40 x FS
500-1,500 (40-100)		20 x FS
2,000-6,000 (160-400)		10 x FS
7,500-9,000 (600)		10 X F3
10,000 (700)		> 60,000 PSI
15,000 (1,000)	2.50 x FS	(4,000 bar)

## **Pressure Ports**

# SAE

	1/8″-27 NPT	1/4″-18 NPT
Dimensions in Inches	0.28 0.49 0.37	0.28 0.685 0.57
Fitting Code	08	02
Torque	2-3 TFFT*	2-3 TFFT*

<sup>\*</sup>NPT Threads 2-3 turns from finger tight (TFFT). Wrench tighten 2-3 turns.

### Metric

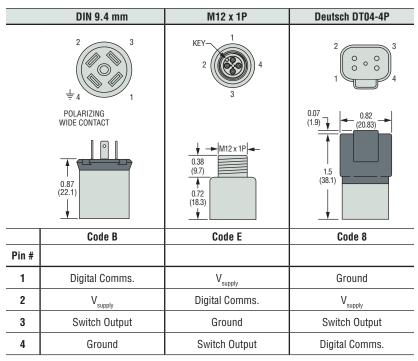
	G1/8" External	G1/4″ External	G1/4" A Integral Face Seal	M12x1.5 HP Metal Washer Seal
Dimensions in MM	7 13.5 10.5	7 14 11	7 14 11	7 16.5
Fitting Code	0\$	01	05	2Т
Torque	16.2-18.4 ft-lb 22-25 NM	22.1- 25.8 ft-lb 30-35 NM	22.1- 25.8 ft-lb 30-35 NM	22.1- 25.8 ft-lb 30-35 NM

### General Notes:

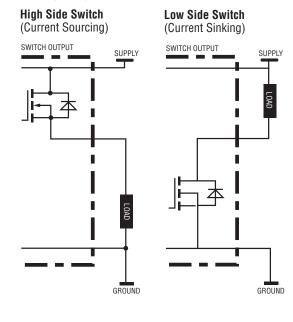
- 1. Electrical Connector Housing diameter is 19mm (0.748")
  2. Hex is 22mm (0.886") Across Flats (A/F) for deep socket mounting
  3. For other pressure connections, consult factory.



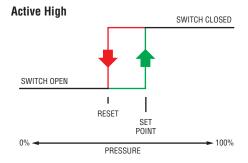
### **Electrical Connector**



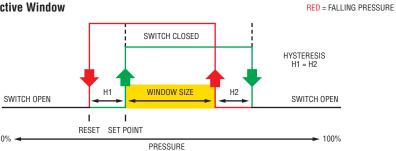
# Wiring Diagrams



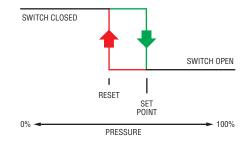
# **Switching Modes**



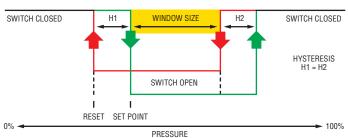
### **Active Window**



### **Active Low**



### **Inactive Window**



GREEN = RISING PRESSURE

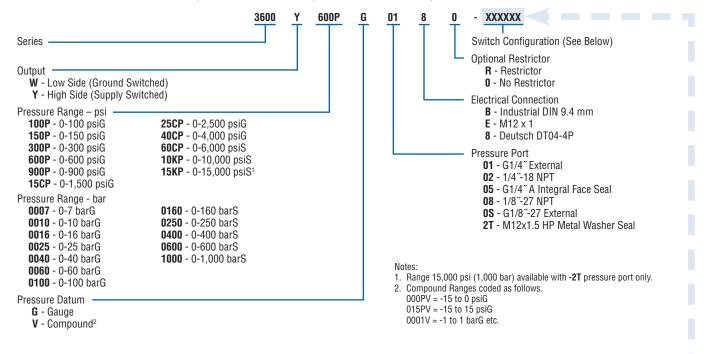
### Accessories

Part Number	Description	For Use on Elect. Code #
557230	MINI DIN Mating Connector, Strain Relief (with drive screw & gasket)	В
557703-01M0	M12 Cord Set – 1 Meter (Red 1, Green 2, Blue 3, Yellow 4)	E
557703-03M0	M12 Cord Set – 3 Meters (Red 1, Green 2, Blue 3, Yellow 4)	E
557703-04M0	M12 Cord Set – 4 Meters (Red 1, Green 2, Blue 3, Yellow 4)	E
557703-05M0	M12 Cord Set – 5 Meters (Red 1, Green 2, Blue 3, Yellow 4)	E
	Recommended Mating Parts (Deutsch p/n: Housing Plug DT064S-P012; Wedge W4S-P012; Sockets 4X 0462-201-1631)	8
224153	Deutsch Cord Set 3´ Long (18 AWG PVC Cable – Black 1, Red 2, Green 3, White 4)	8
564555	3600 Series Communications Interface	ALL

### How to Order

# Step 1: Select Hardware Configuration

Use the **bold** characters below to complete the main hardware product code for ordering.



### Step 2: Specify Switch Configuration (See previous page for switching mode overview)

Use the **bold** characters below, and your own specified values to complete the switch setting product code.

