# ES3 Sanitary

## 58 SERIES

- Standard flush mount
- 4:1 turn down
- Multiple process connections
- Electronic (4 mA to 20 mA) output
- Consistent output during CIP cycles
- HART® protocol output available
- All transmitters are fully temperature compensated

## APPLICATIONS

- Food & beverage
- Chemical processing
- Power generation
- Pharmaceutical
- Water & wastewater
- Pulp & paper
- Marine

## SPECIFICATIONS

| | | | |
|---|---|---|---|
| **Span adjustment range*** | Transmitter turndown ratio is 4:1 for all ranges. | | |
| | **Nominal** | **Minimum** | **Range of Adjustment** |
| | 0–5.8 psig | 0–1.45 psig | 0–40 in$H_2O$ through 0 – 160 in$H_2O$<br>0–1 m through 0–4 m water |
| | 0–23 psig | 5.8 psig | 0–160 in$H_2O$ through 0 – 630 in$H_2O$<br>0–4 m through 0– 16 m water |
| | 0–58 psig | 0–14.5 psig | 0–394 in$H_2O$ through 0–1575 in$H_2O$ /<br>0–10 m through 0–40 m water |
| | 0–145 psig | 0–29 psig | |
| | 0–350 psig | 0–87 psig | |
| **Operating limit (maximum pressure)** | Pressure above 300% nominal range (over-range) will result in damage to the transmitter (200% may cause a shift in calibration). | | |
| **Accuracy** | Less than ±0.20% Adjusted Span<br>Includes linearity, hysteresis, non-repeatability errors. | | |
| **Pressure media** | Gas or liquids compatible with Hastelloy (diaphragm); Silicone rubber (o-ring). All other wetted parts 316L. | | |
| **Electrical** | Input (excitation): 14 Vdc to36 Vdc<br>Output (mAdc): 4 mA to 20 mA<br>HART® protocol (optional) | | |
| **Linearity (worst case)** | Less than ±0.13% full scale<br>Hysteresis (worst case)<br>Less than 0.05% full scale | | |
| **Non-repeatability (worst case)** | Less than 0.02% full scale | | |
| **Operating temperature range** | -4 °F to 212 °F / -20 °C to 100 °C | | |

* IMPORTANT! Accuracy, linearity, and non-repeatability values are based on adjusted span range.



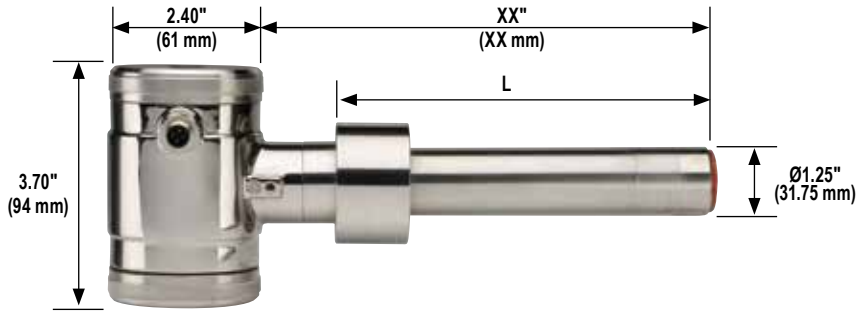
⚠ **WARNING:** This product can expose you to chemicals including Lead and Nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

| ORDERING INFORMATION | | | | | |
|---|---|---|---|---|---|
| **SERIES** | **58** | | | | |
| **PROCESS CONNECTIONS** | **01** | KING Short | **02** | KING Standard | **03** KING Long |
| **OPTIONS** | **01** | Standard options | **04** | Hart® protocol | |
| | **02** | Transparent cover | **06** | Transparent cover + Hart® | |
| **SPAN RANGES** | **01** | 1.5 psi to 5.8 psi | **03** | 14.5 psi to 58 psi | **05** 87 psi to 350 psi |
| | **02** | 5.8 psi to 23.2 psi | **04** | 29 psi to 145 psi | |

**EXAMPLE**

**58 01 - 02 - 04**

**Series** ..... 58 Series
**Process connection** ..... KING short
**Option** ..... Transparent cover
**Span range** ..... 29 psi to 145 psi




| | L |
|---|---|
| Short | 2.19" (55.63 mm) |
| Standard | 6.62" (168.15 mm) |
| Long | 8.81" (223.77 mm) |

M12 Connector

**CONNECTION 2-WIRE - 4 mA to 20 mA**

**1 - Brown Positive ( + )**
**2 - White Negative ( - )**
**3 - Blue Not Used**
**4 - Black Not Used**