

# **KLIXON** | CO<sub>2</sub> SYSTEM PRESSURE SWITCHES

PS80-2X Series, For use in R744/CO<sub>2</sub> Operated Systems

## LEADING THE WORLD IN SWITCH DESIGN

The PS80-2X is an automatic reset pressure switch designed to meet the unique challenges of R744/CO<sub>2</sub> based air conditioning and refrigeration equipment. These green systems require robust switches capable of withstanding the increased pressures and temperatures generated by these units. Sensata has redesigned the flagship PS80 to meet the special requirements of these transcritical R744 systems.

Sensata Technologies has been a leading global supplier of pressure sensors & switches for over 50 years.

## Features & Benefits

- Hermetically sealed
- Environmentally sealed leads
- Reliable over a broad pressure & temperature range
- Factory calibrated settings
- Single pole, single throw
- Normally open/normally closed
- Proven reliability

## **Technical Specifications**

#### **Maximum Operating Pressure**

2300 psig 160 bar 16.0 MPa

#### **Maximum Calibration Pressure**

2275 psig 157 bar 15.7 MPa

#### **Proof Pressure**

3100 psig 215 bar 21.5 MPa

#### **Burst Pressure**

6100 psig 420 bar 42.0 MPa

#### **Electrical Ratings**

120/240 Vac - 6.0 FLA 36 LRA 120/277 Vac -375 VA Pilot Duty 24Vac - 125 VA Pilot Duty Gold contacts available

## **Applications**

- CO<sub>2</sub> Air Conditioning
- CO<sub>2</sub> Refrigeration
- CO<sub>2</sub> Heat Pump
- High Pressure Safety Cut Out

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• Low Pressure Safety Cut Out

## Life at Rated Current

**Dielectric Strength** 750 Vrms Open Contacts 1500 Vac for 1 minute

Lead Wire Material/Electrical Connection #18 AWG 600 V 125°C 1/32" XLP UL 3173 #18 AWG 600 V 125°C 1/16" XLP UL 3290 Quick Connects

### Ambient Temperature (UL Rating)

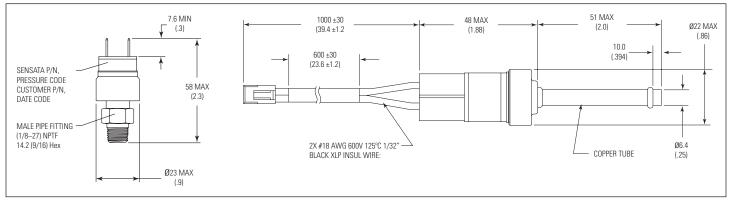
-20°F to 176°F (-29°C to 80°C)

Fluid Temperature (UL Rating) -65°F to 275°F (-54°C to 135°C)

#### **Agency Recognitions**

ULFile SA995 Guide SDFY2UL (Canada)File SA995 Guide SDFY8PED EN 12263Module B&DENEC, EN60730EN60730-1, EN60730-2-6RoHS CompliantFile SA995 Guide SDFY8

## **Typical Physical Characteristics**



## **PS80-20 Series Part Numbering System**

Part Numbering Scheme	Switch Logic/Termination Style	Contact Type
PS80-21-XXXX	Normally closed switch, Wire leads	Silver contacts
PS80-22-XXXX	Normally open switch, Wire leads	Silver contacts
PS80-23-XXXX	Normally closed switch, Quick connect	Silver contacts
PS80-24-XXXX	Normally open switch, Quick connect	Silver contacts
PS80-25-XXXX	Normally closed switch, Wire leads	Gold contacts
PS80-26-XXXX	Normally open switch, Wire leads	Gold contacts
PS80-27-XXXX	Normally closed switch, Quick connect	Gold contacts
PS80-28-XXXX	Normally open switch, Quick connect	Gold contacts

### **Key Parameters for Sample Inquiry**

Company Name and Address						
Contact						
Phone						
Description of Application						
Exact Function of Switch in System						
Current	Voltage	Life C	Cycle Requirement _			
Cut In Pressure	_ Tolerance	Cut Out Pressure	7	Folerance		
Pressure Port Fitting	Wire	e Guage	_ Wire Length			
Wire Lead termination (e.g., 1/2 inch strip, 1/4 inch female Q.C., etc.)						



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