SOR 107AL-N40-P1-F0A-X Manual

Brand	SOR
Product Series	SOR
Product Type	Contains explosion-proof hermetically sealed

Description

The SOR 107AL-N40-P1-F0A-X is a rugged field-installable differential pressure switch manufactured by SOR Controls Group. This instrument focuses on micro-differential pressure detection and is commonly used in HVAC systems, filter monitoring and hydraulic machinery applications. It features large-area diaphragm sensing, SPDT switching elements, and adjustable construction.
SOR Controls Group
SOR Controls Group
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Technical characteristics and structure:
Model: 107AL-N40-P1-F0A-X
Brand: SOR Controls Group
Type: Low differential pressure switch/micro differential pressure switch
Shell: Cast Iron
Key Features: Adjustable Set Point
Applications: Hydraulics, mechanical equipment, ventilation systems

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SOR®
low differential
pressure switches are robust, fieldmounted instruments designed for the process industries.
These instruments accurately read very low pressures
by utilizing a diaphragm with a large sensing area.
The switching element is SPDT. An external Set Point
adjustment with visual indication is standard, allowing for
simplified calibration of the switch

Applications
Built to high-quality standards for reliability, this switch is
suitable for draft ranges commonly associated with HVAC
applications and burner management systems. It is also
suited for other industrial air and gas services which are
compatible with the wetted parts. Standard models are
available for weathertight or explosion-proof environments.
Agency Listings/Certifications
Rostechnadzor (RTN) standard (certificate
available upon request)
Safety Certified to IEC 61508 (SIL)
SOR products are certified to IEC 61508
for non-redundant use in SIL1 and SIL2
Safety Instrumented Systems for most
models. For more details or values
applicable to a specific product, see the

Safety Integrity Level Quick Guide
(Form 1528).

Electrical Housing
Type Contains explosion-proof hermetically sealed
switching element. See Electrical Service.
Class I, Groups A, B, C, D; Class II,
Groups E, F, G; Divisions 1 & 2
Weathertight
Body Material 356-T6 aluminum
Pressure Ports
Material Plated cold-rolled steel
Connection size 1/8” NPT(F)
For 1/4” NPT(F), change F0A to F1A in selected model.
Wetted Materials
Buna-N, brass, aluminum, cork, stainless steel, acrylic
tubing, nylon, plated cold-rolled steel
Electrical Connection
1/2” NPT(M); 18” stranded wire leads, 18-AWG
color-coded and marked.
Temperature Limits Ambient –40 to 150°F (–40 to 65°C)
Process –40 to 150°F (–40 to 65°C)
Electrical Service Contact ratings 5 amps 250 VAC
* 5.0 amps 30 VDC
* 0.5 amps 125 VDC
The hermetically sealed switching element capsule is
UL Listed, CSA Certified and SAA Approved as an
explosion-proof snap switch per the following table

*DC electrical ratings are for resistive loads only. DC
ratings are not agency approved or listed but have been
verified by testing or experience.
Max. System Pressure 10 psig (.69 bar)
Vacuum protected to 30” Hg
Weight Approximate 5 lb. (2.3 kg)

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