

Description and Application

The KMC SLE-1001 FirstWatch Monitor detects problems with critical refrigerant conditions long before visual observation can spot trouble. When mounted on an approved sight-glass window, this easy-to-install, non-invasive optical sensor detects moisture content and flash gas content (bubbles of non-condensed refrigerant).

Combining an SLE-1001 with a KMC building automation system provides the capability to:

- ◆ Remotely monitor systems in difficult to reach locations.
- ◆ Record the actual condition of the refrigerant.
- ◆ Initiate alarms to alert personnel to possible trouble areas.

The SLE-1001 is designed for use with Sporlan Valve Company's See•All Combination Moisture and Liquid Indicators or equivalent. FirstWatch is an ideal way to monitor critical areas that do not meet ANSI/ASHRAE Standard 15-1994.

Environmental Protection Agency

Electronic Technology Verified information on the performance characteristics of FirstWatch Monitor technology can be found at www.epa.gov/etv or on the SLE-1001 product page of the KMC Controls web site. (Use of the ETV® name or logo does not imply approval or certification of this product nor does it make any explicit or implied warranties or guarantees as to product performance.)



Accessories

IEI-1110

RAM-1, Refrigerant Alarm Monitor

Power transformer

XEE-6111-40, single-hub 120 volt transformer

XEE-6112-40, dual-hub 120 volt transformer

SLE-1101

Refrigeration Alarm Monitoring Kit (includes SLE-1001, IEI-1110, and 40 VA transformer)

Approved Sight Glass Windows

The SLE-1001 is approved for use with the following models of the Sporlan Valve Company's See•All® sight glass:

SA-14S, SA-14SU, SA-14UU

SA-15S, SA-15SU, SA-15UU

SA-17S

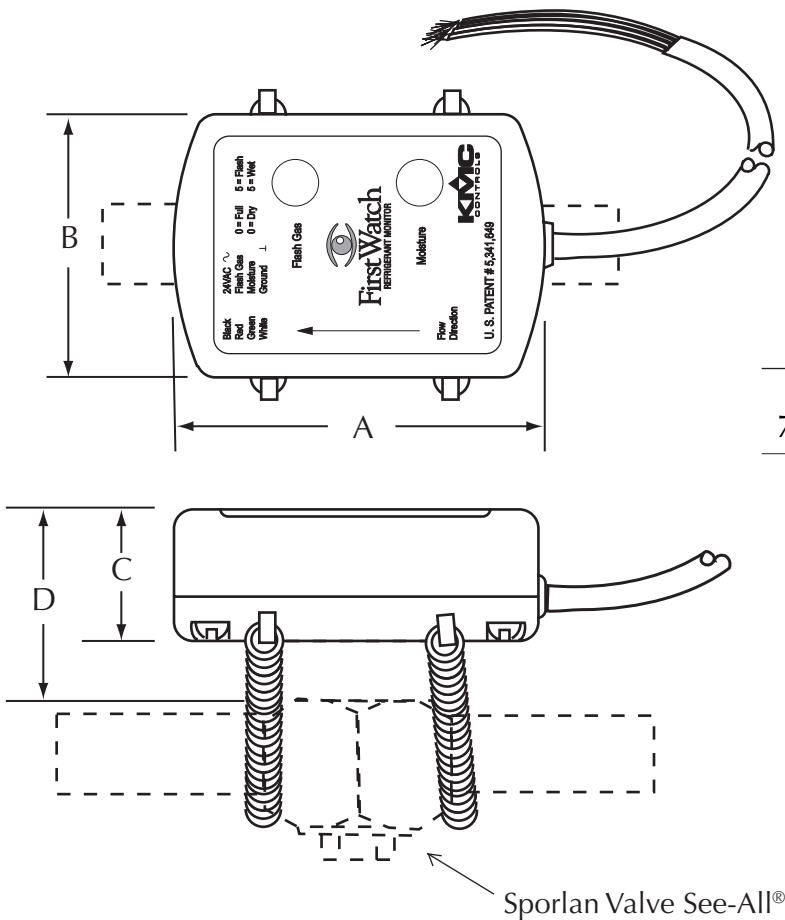
SA-19S

Requires adaptor ring (supplied with SLE-1001)

SA-12S

SA-13S, SA-13SU, SA-13UU

Dimensions



A	B	C	D
3.0 in.	2.5 in.	1.06 in.	1.5 in.
7.62 cm	6.53 cm	2.67 cm	3.81 cm

Specifications

Output Signal

Flash gas	0–5 VDC, 100K ohm load impedance
Moisture	0–5 VDC, 100K ohm load impedance

Indicators

Flash gas	Flashing red LED (flashing rate is proportional to concentration of bubbles)
Moisture	Yellow LED (brightness is proportional to presence of moisture)

Connections

10 foot, four-conductor, 22 AWG cable

Power Supply

24 VAC (+20, –15%), 1.5 VA, 50–60 Hz

Approvals

CE Compliant

Environmental Limits

Operating	–20 to 140° F (–29 to 60° C)
Shipping	–40 to 140° F (–40 to 60° C)
Humidity	0 to 95% RH (non-condensing)

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