

TYPE _____ · DATE _____ · PROJECT _____

SR3

Sage Relay — Downlight & Panel

Emergency Lighting Relay

For use with Sage central-battery systems

SUGGESTED SPECIFICATION

Supply and install Sage Relay Series SR (Type SR3) which shall be capable of operating an LED general-lighting fixture in emergency mode for a minimum of 90 minutes following failure of the normal power supply to the fixture, when connected to a Sage DC central-battery system.

ELECTRICAL SPECIFICATIONS

Driver current is settable at the factory to produce the output voltage and power ranges given below in Table 1. Emergency power output (EPR) is adjustable through the range given below. Maximum available EPR is a function of the operating voltage of the luminaire's LED array. Power should be specified to ensure illumination on the path of egress complies with NFPA 101 Life Safety Code, based on photometric data and efficacy for the fixture in use. To determine compatibility of Sage Relay devices and the output power required for specific applications, see the Sage Relay Specification Guide.

PRODUCT DATA · INPUT

Operating Voltage	19–27 V
Under-Voltage Protect (turn OFF)	18 V
Under-Voltage Recover	20 V
Over-Voltage Protect (turn OFF)	30 V
Over-Voltage Recover	28 V
DC Current (24 V input)	1 A
Inrush Current	2 A (cold start, $V_{in} = 24\text{ V}$, 20 W)

FEATURES

- High efficiency, up to 90% @ 24 VDC input
- Constant-current output, step-up capability
- Protections: OVP, SCP, OTP

TEMPERATURE

Operating Temperature	-20° to +65° C
Max. Ambient Temperature (Ta)	65° C
Max. Case Temperature (Tc)	80° C

TABLE 1 — OUTPUT VOLTAGE & CURRENT

Option Code	Output Voltage ¹ (VDC)	Output Current ² (mA)	Max. Emergency Power ³ (W)
NONE	30–100	50–200	20
V1	27–54	100–400	20
V2	5–41	50–350	14
V3	5–22	300–1000	22

1. Automatic output-voltage sensing.
2. Output current is factory adjustable.
3. Maximum EPR is a function of the operating voltage of the luminaire LED array. See the Sage Relay Specification Guide to estimate the value required.

Constant-current output

ORDERING INFORMATION

Series	Watts	Option	Description
SR3	X Watts	V1	27–54 V
		V2	5–41 V
		V3	5–22 V

Ordering Example: SR3-20-V1

¹ Based on the lumen output required.

UL CONDITIONS OF ACCEPTABILITY

Wiring must be installed within a Fire and Electrical Enclosure and light output must exceed 1 foot-candle at 7'3" from the sample.

NOTE: All specifications measured at 25° C.

NOTE: If LED arrays include current-regulation circuits, contact the factory to confirm Sage Relay compatibility.

“Engineered for the spaces it protects.”