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## Product Description

The Sealed Vehicle Rocker (SVR) switch from Eaton's electrical business now offers an above panel actuator style in addition to the below panel and paddle actuators. Designed to meet the severe environmental requirements of the construction and agricultural vehicle markets, the SVR is sealed at the front and back of the switch and meets the rigorous sealing requirements of IP68.
The small switch footprint minimizes the space taken on switch panels. SVR switches are assembled into panels by pressing the switch through the top of the panel and are held in place by retention tabs molded into the body of the switch; mounting hardware or special tools are not necessary.

The SVR is offered in singleand two-pole switch circuits, with two- and three-position momentary and maintained circuits available. Switch and illumination circuits are terminated with 0.11 in $(2.8 \mathrm{~mm})$ tin-plated copper alloy spade terminals. The SVR connector can be loaded with the appropriate terminals and/or wire seals to accomplish sealing at the back end of the switch.

## Features

You can order assembled switches or the switch base and actuator separately.

Use the final code in the switch base catalog number, Pages V11-T2-34 and V11-T2-35, to denote assembly instructions.

## Actuator

The SVR switch family includes three styles of actuators: above panel, below panel and paddle.
Switch performance and specifications are the same for all actuator styles. Black is standard, but other colors are also available. Matte finish is standard on all actuator styles, matching the finish on the bezels and all other visible SVR switch features and accessories.

## Actuator Styles

- Above panel rocker button offers new styling and a larger surface area. Eaton can offer assistance with unique designs of above panel actuators for applications where differentiation is desired
- Below panel rocker button is the same two-faced European styling that has been offered for SVR since its initial release. Indicator style matches the below panel rocker button style
- Paddle actuator allows toggle-type actuation of the SVR switch


## Standards and <br> Certifications

- Approvable under stringent UL and CSA standards
- For information, contact your local Eaton Sales Representative
- RoHS Compliant ${ }^{(1)}$

RơHS

## Note

(1) Visit www.eaton.com/vcbu for the most up-to-date list of verified part numbers.

# Rockers 

## Illumination

Long life LEDs provide backlighting illumination for the SVR switch. Backlighting can be either independent of or dependent on the switch circuits, or a combination of both. Standard LED color is amber, with red, green and blue also available. LED protection circuitry is available to protect the LED from overvoltage and reverse voltage conditions.
Contact your local Eaton Sales Representative for more specific information about standard and custom circuit options.

## Backlighting

- Each switch can accommodate up to two LEDs that can be connected to be either circuit dependent or independent
- Standard LED color is amber, with red, green and blue also available. Long life (100,000 hours) LEDs are standard
- Standard LED voltages are 12 and 24 Vdc
- The below panel rocker button style includes a single-piece back-lit actuator with laser-etched icons in either daylight white or deadfront styles. Without illumination, the icon is either daylight white or deadfront, but will change to the color of the chosen light source when illuminated


## Snap-in Lenses

- Above and below panel rocker buttons are available with or without one or two translucent lenses. Five standard lens colors are available: white, red, green, blue and amber


## Icons

- Icon areas are provided on each end of the rocker button. Icons may be illuminated or nonilluminated and are padprinted in a contrasting color either directly on the rocker button or the lens


## Mounting Means

Snap-in mounting using four flexible plastic retainers integral with switch frame.

## Circuits

The SVR switch is capable of single- or two-pole configurations with two- or three-position maintained, momentary or a combination of actuations.

The addition of jumpers between switch terminals expands the circuit possibilities.

Contact your local Eaton Sales Representative for more specific information about SVR standard and custom circuit options.

## Standard Circuit Options

- ON-NONE-ON
- ON-OFF-ON
- ON*-OFF-ON*
- ON*-OFF-ON
- ON-ON-ON
- ON*-NONE-ON
- ON*-ON-ON*
- ON*-ON-ON

Note: * = Momentary. See Electrical Circuit Diagrams on Page V11-T2-37.

## Sealing

SVR design includes a sealed contact chamber with dust and water resistance to IP68. The harness connection can also be sealed by using AMP wire seals Catalog Number 828905-1 (14-16 gauge) or 828904-1 (18-20 gauge) to seal the wires to the connector. For an application where a connector cavity is not being used, it can be sealed with AMP sealing plug Catalog Number 828922-1.
The above panel version may also be sealed to the panel using panel seal Catalog Number 32-2245.

## Options

- Additional colors of actuators, mounting bezels and lenses
- Special circuits
- Special ratings
- Pad printing on the below panel switch bezel
- Low current capabilities
- Custom back-lit icons
- Gang-mount system including end bezel Catalog Number 17-22146 and center bezel 17-22152
- Palm Guard (below panel switch only) at either or both ends of the switch frame
- Indicators with insertable lenses
- Polarized lock-on connector Catalog Number 25-13936
- Panel plug with connector retention feature Catalog Number 17-22145
- Non-illuminated below panel paddle actuator

Note: Contact your local Eaton Sales Representative for additional information on options.


Above-Panel Rocker Switch

## Catalog Number Selection

## How To Order-Above-Panel SVR Switch

To determine complete catalog number, start with the appropriate switch series and add the appropriate code letters and/or numbers.
Example: $\underline{S} \quad \underline{A C} \quad \underline{M} \quad \underline{X} \quad \underline{D} \quad \underline{G} \quad \underline{A T} \quad \underline{A V} \quad \underline{X} \quad \underline{X}$


## Notes

(1) Gold plated.
(2) Two-pole only. See Electrical Circuit Diagrams on Page V11-T2-37 and Illumination Circuit Diagrams on Page V11-T2-38
${ }^{(3)}$ For red rocker, only actuator style options $\mathrm{A}, \mathrm{C}$ and F are available.


## Catalog Number Selection

## How To Order-Below-Panel Rocker Switch

To determine complete catalog number, start with the appropriate switch series and add the appropriate code letters and/or numbers.
Example: $\underline{S}$ AC $\underline{S} \underline{2 X} \underline{\underline{3}} \underline{G} \underline{A T} \underline{\mathrm{AC}} \underline{\mathrm{X}} \underline{\mathrm{X}}$

| Switch Series |  |
| :---: | :---: |
| S = SVR |  |
| Switch Circuits/Illumination Circuits |  |
|  |  |
| 1st Digit (Circuit) | 2nd Digit (Illumination) |
|  | Single-Pole Illumination |
| $\begin{aligned} & \text { A }=\text { ON-NONE-ON } \\ & \mathbf{C}=\text { ON-NONE-ON } \end{aligned}$ | $\begin{aligned} & \hline \mathbf{A}=\text { None } \\ & \mathbf{C}=\text { Top/left (D) } \end{aligned}$ |
|  | $\mathbf{D}=$ Bottom/right (D) |
|  | $\mathbf{E}=$ Top/left (I) |
| D = ON-OFF-ON | F = Bottom/right (I) |
| $\mathrm{E}=0 \mathrm{~N}-0 \mathrm{FF}-\mathrm{ON}{ }^{1}$ | $\mathbf{G}=$ Top/left (D)/bottom/right (I) |
| $\mathbf{F}=0 \mathrm{~N}^{*}-0 \mathrm{FF}-0 \mathrm{~N}^{*}$ | H = Top/left (I)/bottom/right (D) |
| $\begin{aligned} & \mathbf{G}=0 N^{*}-0 F F-0 N^{*}(1) \\ & \mathbf{H}=0 N^{*}-0 \mathrm{FF}-0 \mathrm{~N} \end{aligned}$ | J = Top/left (D)/bottom/right (D) |
| $\begin{aligned} & \mathbf{H}=0 N^{*}-0 \text { OFF-ON } \\ & \mathbf{J}=0 N^{*}-\text { OFF-ON } \end{aligned}$ | K = Top/left (I)/bottom/right (I) |
|  | Two-Pole Illumination |
| $\mathbf{L}=\mathrm{ON}-\mathrm{ON}-\mathrm{ON}{ }^{(1)(2)}$ | R = None |
| $\mathbf{M}=0{ }^{*}-$ NONE- - N | $\mathbf{S}=$ Top/left (D) |
| $\mathbf{P}=0 \mathrm{~N}^{*}-$ NONE-ON ${ }^{\text {(1) }}$ | $\mathbf{T}=$ Bottom/right (D) |
| $\mathbf{R}=0 \mathrm{~N}^{*}-\mathrm{ON}-0 \mathrm{~N}^{*}$ (2) | $\mathbf{U}=$ Top/left (I) |
| $\mathbf{S}=0 \mathrm{~N}^{*}-0 \mathrm{~N}-0 \mathrm{~N}^{*}$ (1)(2) | $\mathbf{V}$ = Bottom/right (I) |
| T $=0 \mathrm{~N}^{*}-\mathrm{ON}-0 \mathrm{~N}$ | $\mathbf{W}=$ Top/left (D)/bottom/right (I) |
| $\mathbf{U}=0 \mathrm{~N}^{*}-\mathrm{ON}-0 \mathrm{~N}$ (1) | $\mathbf{Y}=$ Top/left (I)/bottom/right (D) |
|  | $\mathbf{3}=$ Top/left (D)/bottom/right (D) |
|  | 4 = Top/left (I)/bottom/right (I) |
| 1st and 2nd Digit Indicators |  |
| NE = 7-9 Illumination |  |
| NF = 8-10 Illumination |  |
| NK = Dual Illumination |  |
| N9 = Dual Illumination with 8-9 jumper |  |



## LED Wavelengths:

Red $=\sim 630 \mathrm{Nm}$
Amber $=\sim 592 \mathrm{Nm}$
Green $=\sim 526 \mathrm{Nm}$
Blue $=\sim 472 \mathrm{Nm}$



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## SVR—Sealed Vehicle Rockers

## Technical Data and Specifications

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Note
(1) See also Sealing, Page V11-T2-33, for additional AMP components to seal the connector interface.

## Circuit Diagrams

Switch Circuit Schematics



## Above-Panel Rocker

Approximate Dimensions in Inches (mm)
Panel Seal Gasket (Above Only)
Panel Opening (Above and Below)

## Catalog Number 32-2245




Note: Recommended panel thickness $0.039-0.157$ in ( $1.00-4.00 \mathrm{~mm}$ ).
Best results obtained between 0.059 and 0.118 in ( 1.50 and 3.00 mm ).
2.3

## Below-Panel Rocker

Approximate Dimensions in Inches (mm)
2
Below-Panel Rocker Switch with Actuator


Panel Actuator (Below-Panel Only)


Panel Guard (Below-Panel Only)


## Below-Panel Rocker

Approximate Dimensions in Inches (mm)
Indicator (Below-Panel Only)


## Accessories

Approximate Dimensions in Inches (mm)
2 Gang Mount System
End Bezel Catalog Number 17-22146
Center Bezel Catalog Number 17-22152


## Panel Plug

## Catalog Number 17-22145



## Connector

## Catalog Number 25-13936




[^0]:    Notes
    (1) Gold plated.
    (2) Two-pole only. See Electrical Circuit Diagrams on Page V11-T2-37 and Illumination Circuit Diagrams on Page V11-T2-38.

