

D E S C R I P T I O NPRODUCT COVERED:

\* Component Magnetically-Operated Switches, Model Nos. RY2S, RY2V, RY4S, RY4V, RY22S, RY22V, RY42S and RY42V, all followed by -P, -U, -UT, -UL, -UC, -ULC, or UM, may be followed by E. Models RY2KS-U, RY2KS-UC, RY2LS-U and RY2LV-U, may be followed by E.

GENERAL:

These components are open-type, two-pole, or four pole double-throw magnetically-operated switches with AC or DC coils with normally open and normally closed contacts. They are for use in industrial applications. They may be provided with an indicator light or a push-to-check button or both indicator light plug push-to-check button.

These devices are intended for use in equipment where the suitability of the combination has been determined by Underwriters Laboratories Inc.

RATINGS:

RY2 Contacts - 240 V ac, 3 amps, resistive  
120 V ac, 1.5 amps, general use  
240 V ac, 0.8 amps, general use  
100 V dc, 0.2 amps, resistive, general use.  
30 V dc, 3 amps, resistive, general use

RY4 Contacts - Same ratings as RY2 contacts plus the following:  
240 V ac, 5.0 A, resistive, general use.  
100 V dc, 0.2 A, resistive, general use.  
30 V dc, 5.0 A, resistive, general use.

RY22, RY42 Contacts - 240 V ac, 0.8 A, resistive  
120 V ac, 1 A, resistive  
120 V ac, 0.5 A, general use  
240 V ac, 0.4 A, general use  
30 V DC, 1 A, resistive  
30 V dc, 0.5 A, general use



\* Operating Coils - 6-240V AC and 6-110V DC. See model number code key on Page 2.

RY2KS, RY2L, Contacts - 240 V ac, 3 A, resistive  
240 V ac, 0.8 A, general use  
120 V ac, 3 A, resistive  
120 V ac, 1.5 A, general use  
30 V dc, 3 A, resistive

RY2KS Coils - 6-120 V ac and 6-110 V dc

RY2L Coils - 6-120 V ac and 6-24 V dc



MODEL NO. CODE KEY:

\* R Y 4 2 S - U E

E - Color of Enclosure

\* E - Colorless, transparent

\* None - Yellow, transparent

## U - P - Standard Enclosure

U - Standard enclosure with ARC Barrier

UT - Standard enclosure with top mounting bracket

+ UL - Standard enclosure with indicator light (Neon Lamp or LED)

+ UC - Standard enclosure with push-to-check button

+ ULC - Standard enclosure with indicator light and push-to-check button.

+ UM - Standard enclosure with mechanical indicator.

S - Terminal Type

S - Soldering &amp; Plug-In Type

V - Printed Wiring Board Type

2 - No. of Contacts Per Pole

2 - Two contacts

Nothing - One contact

4 - No. of Poles

4 - Four poles

2 - Two poles

Y - Relay Class

Y - Miniature

+ Note: Only Models RY4 and RY42 include this suffix.



NOMENCLATURE:

Models RY2KS-U, RY2KS-UC, RY2LS-U and RY2LV-U.

\*     RY    2       K       S       -       UC    E  
          I        II        III       IV        V        VI

I. Series Designation:

RY - Miniature

II. No. of Poles:

2 - Two poles

III. Construction:

K - Keep relay

L - Keep relay with operation indicator

IV. Terminal Type:

S - Soldering and Plug-In Type

V - Printed Wiring Board Type

V. Enclosure Type:

U - Standard Enclosure

UC - Standard Enclosure with Push-to-Check Button

\*VI. Color of Enclosure:

\*     E - Colorless, transparent

\*     None - Yellow, transparent



ENGINEERING CONSIDERATIONS (NOT FOR INSPECTOR USE):

Use - For use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc. This component has been judged on the basis of the required spacings in the Standard for Industrial Control Equipment (UL 508) which covers the end use product for which the component was designed.

Conditions of Acceptability

1. These devices should be used within Recognized ratings as specified above.
2. These devices should be mounted in the intended manner in an enclosure having adequate strength and thickness and with acceptable spacings being provided.
3. The test record should be reviewed to determine if tests need to be repeated, giving particular attention to Temperature Tests.
4. The terminals are to be factory wired only unless intended for use with relay sockets and the suitability of the connection (including spacings between factory connections) shall be determined.
5. The 4-pole devices are not suitable to be used with the poles at opposite polarity since the over-surface spacings between poles are only 1/16 in. (1.6 mm).
- 6.\* Consideration should be given to the fact that additional spacing or barriers may be necessary between the frame or mounting stud and grounded metal in the end use. The over-surface spacings between the contact arms and the armature or frame are only 1/16 in. (1.6 mm).
7. Type RY2KS and RY2L Series Relays are dual coil, latching type relays. Dual coil construction is not intended for simultaneous coil operation. If both coils are energized, chattering of the contacts wire result. The effects of these results have not been evaluated and shall be determined in the end-use application.

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