

# General Purpose Relay

## LY

- Arc barrier equipped.
- High dielectric strength (2,000 VAC).
- Long dependable service life assured by Ag-Alloy contacts.
- Choose models with single or bifurcated contacts, LED indicator, diode surge suppression, push-to-test button, or RC circuit.
- UL, CSA, and TUV approvals on all standard LY Relays.
- CE marks included on non-PCB mount versions.



## Ordering Information

To Order: Select the part number and add the desired coil voltage rating (e.g., LY1-DC6).

| Type                                      | Terminal       | Contact form | Model                     |                        |                           |                        |
|-------------------------------------------|----------------|--------------|---------------------------|------------------------|---------------------------|------------------------|
|                                           |                |              | Single contact            |                        | Bifurcated contact        |                        |
|                                           |                |              | Standard bracket mounting | Upper mounting bracket | Standard bracket mounting | Upper mounting bracket |
| Standard                                  | Plug-in/solder | SPDT         | LY1                       | LY1F                   | —                         | —                      |
|                                           |                | DPDT         | LY2                       | LY2F                   | LY2Z                      | LY2ZF                  |
|                                           |                | 3PDT         | LY3                       | LY3F                   | —                         | —                      |
|                                           |                | 4PDT         | LY4                       | LY4F                   | —                         | —                      |
|                                           | PCB            | SPDT         | LY1-0                     | —                      | —                         | —                      |
|                                           |                | DPDT         | LY2-0                     | —                      | LY2Z-0                    | —                      |
|                                           |                | 3PDT         | LY3-0                     | —                      | —                         | —                      |
|                                           |                | 4PDT         | LY4-0                     | —                      | —                         | —                      |
| LED indicator                             | Plug-in/solder | SPDT         | LY1N                      | —                      | —                         | —                      |
|                                           |                | DPDT         | LY2N                      | —                      | LY2ZN                     | —                      |
|                                           |                | 3PDT         | LY3N                      | —                      | —                         | —                      |
|                                           |                | 4PDT         | LY4N                      | —                      | —                         | —                      |
| Diode surge suppression                   |                | SPDT         | LY1-D                     | —                      | —                         | —                      |
|                                           |                | DPDT         | LY2-D                     | —                      | LY2Z-D                    | —                      |
|                                           |                | 3PDT         | LY3-D                     | —                      | —                         | —                      |
|                                           |                | 4PDT         | LY4-D                     | —                      | —                         | —                      |
| LED indicator and diode surge suppression |                | SPDT         | LY1N-D2                   | —                      | —                         | —                      |
|                                           |                | DPDT         | LY2N-D2                   | —                      | LY2ZN-D2                  | —                      |
|                                           |                | 4PDT         | LY4N-D2                   | —                      | —                         | —                      |
| RC circuit                                |                | SPDT         | LY1-CR                    | —                      | —                         | —                      |
|                                           |                | DPDT         | LY2-CR                    | —                      | LY2Z-CR                   | —                      |
| LED indicator and RC circuit              |                | SPDT         | LY1N-CR                   | —                      | —                         | —                      |
|                                           |                | DPDT         | LY2N-CR                   | —                      | LY2ZN-CR                  | —                      |

- Note:**
1. Types with specifications other than those listed are available. Contact your Omron Sales representative.
  2. To order connecting sockets and mounting tracks, see "Accessories" section.
  3. Relays with RC circuit are only available in AC coil voltages of 100 VAC or greater.

| Type                                  | Terminal       | Contact form | Model                     |                        |                           |                        |
|---------------------------------------|----------------|--------------|---------------------------|------------------------|---------------------------|------------------------|
|                                       |                |              | Single contact            |                        | Bifurcated contact        |                        |
|                                       |                |              | Standard bracket mounting | Upper mounting bracket | Standard bracket mounting | Upper mounting bracket |
| Push-to-test button                   | Plug-in/solder | SPDT         | LY1I4                     | —                      | —                         | —                      |
|                                       |                | DPDT         | LY2I4                     | —                      | LY2ZI2                    | —                      |
|                                       |                | 3PDT         | LY3I4                     | —                      | —                         | —                      |
|                                       |                | 4PDT         | LY4I4                     | —                      | —                         | —                      |
| LED indicator and push-to-test button | Plug-in/solder | DPDT         | LY2I4N                    | —                      | LY2ZI2N                   | —                      |
|                                       |                | 4PDT         | LY4I4N                    | —                      | —                         | —                      |

**Note:** 1. Types with specifications other than those listed are available. Contact your Omron Sales representative.  
2. To order connecting sockets and mounting tracks, see "Accessories" section.

## ■ Accessories

### Connecting Sockets

To Order: Select the appropriate part numbers for sockets, clips, and mounting tracks (if required) from the following charts.

#### Track Mounted Sockets

| Relay | Socket*  | Relay hold-down clip |            | Mounting track                                              |
|-------|----------|----------------------|------------|-------------------------------------------------------------|
|       |          | Standard             | RC circuit |                                                             |
| SPDT  | PTF08A-E | PYC-A1               | Y92H-3     | PFP-100N/PFP-50N & PFP-M or PFP-100N2 PFP-S (Option spacer) |
| DPDT  |          |                      |            |                                                             |
| 3PDT  | PTF11A   |                      |            |                                                             |
| 4PDT  | PTF14A-E |                      |            |                                                             |

\* Track mounted socket can be used as a front connecting socket.

#### Back Connecting Sockets

| Relay | Solder terminal socket | Wire wrap terminal socket | Relay hold-down clip |              |            |            | Socket Mounting Plate |        |        |        |
|-------|------------------------|---------------------------|----------------------|--------------|------------|------------|-----------------------|--------|--------|--------|
|       |                        |                           | Standard             | Push-to-test | RC circuit | Mtg. plate | 1                     | 10     | 12     | 18     |
| SPDT  | PT08                   | PT08QN                    | PYC-P                | PYC-P2       | PYC-1      | PYC-S      | PYP-1                 | —      | —      | PYP-18 |
| DPDT  |                        |                           |                      |              |            |            |                       |        |        |        |
| 3PDT  | PT11                   | PT11QN                    |                      |              |            |            | PTP-1-3               | —      | PTP-12 | —      |
| 4PDT  | PT14                   | PT14QN                    |                      |              |            |            | PTP-1                 | PTP-10 | —      | —      |

**Note:** Types PYP-18, PTP-12 and PTP-10 may be cut to any desired length.

| Relay | PC terminal socket | Relay hold-down clip |              |            |
|-------|--------------------|----------------------|--------------|------------|
|       |                    | Standard             | Push-to-test | RC circuit |
| SPDT  | PT08-0             | PYC-P                | PYC-P2       | PYC-1      |
| DPDT  |                    |                      |              |            |
| 3PDT  | PT11-0             |                      |              |            |
| 4PDT  | PT14-0             |                      |              |            |