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### Versatile plug-in relay that sets the standard

Over 1 billion pieces of this mini power relay have been manufactured since its introduction and have successfully been used in many different applications. Bifurcated contacts optionally are available to achieve reliable low current switching during the entire electrical life. Full range of sockets covering mounting by screw, box clamp and screw-less clamp method.

- DPDT type 10 A / 4PDT type 5 A
- Mechanical flag, LED indicator and momentary / lockable testbutton optional
- Transparent housing
- Low power switching (1 mA at 5 VDC) / Bifurcated 4PDT (0.1 mA at 1 VDC)
- Screw-less clamp terminal sockets available

### Ordering information

| Contact form | Diode | LED indicator | Lockable test button | Order code (___ = coil voltage + AC/DC) |                  |                          |                                 | Common coil voltages <sup>*1</sup> |    |
|--------------|-------|---------------|----------------------|-----------------------------------------|------------------|--------------------------|---------------------------------|------------------------------------|----|
|              |       |               |                      |                                         |                  |                          |                                 | DC                                 | AC |
| DPDT         | no    | no            | no                   | MY2___ (S)                              | –                | 12, 24                   | 12, 24, 48/50, 110/120, 220/240 |                                    |    |
| DPDT         |       | yes           |                      | MY2N___ (S)                             | –                | 12, 24                   | 24, 110/120, 220/240            |                                    |    |
| DPDT         | yes   |               |                      | MY2N-D2___ (S)                          | –                | 24                       | –                               |                                    |    |
| DPDT         | no    |               | yes                  | MY2IN___ (S)                            | –                | 12, 24, 48               | 12, 24, 110/120, 220/240        |                                    |    |
| DPDT         |       |               |                      | –                                       | MY2IN1___ (S)    | 12, 24                   | –                               |                                    |    |
| DPDT         | yes   |               |                      | MY2IN-D2___ (S)                         | –                | 24                       | –                               |                                    |    |
| DPDT         |       |               |                      | –                                       | MY2IN1-D2___ (S) | 24                       | –                               |                                    |    |
| 4PDT         | no    | no            | no                   | MY4___ (S)                              | –                | 12, 24, 48, 100/110, 125 | 12, 24, 48/50, 110/120, 220/240 |                                    |    |
| 4PDT         |       | yes           |                      | MY4N___ (S)                             | –                | 12, 24, 48, 100/110      | 24, 110/120, 220/240            |                                    |    |
| 4PDT         | yes   |               |                      | MY4N-D2___ (S)                          | –                | 12, 24                   | –                               |                                    |    |
| 4PDT         | no    |               | yes                  | MY4IN___ (S)                            | –                | 12, 24, 48               | 12, 24, 48/50, 110/120, 220/240 |                                    |    |
| 4PDT         |       |               |                      | –                                       | MY4IN1___ (S)    | 12, 24, 48               | –                               |                                    |    |
| 4PDT         | yes   |               |                      | MY4IN-D2___ (S)                         | –                | 24                       | –                               |                                    |    |
| 4PDT         |       |               |                      | –                                       | MY4IN1-D2___ (S) | 24, 48                   | –                               |                                    |    |

<sup>\*1</sup> Other coil voltages available. Please see specifications.

- Note**
- MY4 also available with bifurcated contacts => example MY4Z
  - MY2 and MY4 AC 110/120, 220/240 types also available with suppression => example MY4N-CR

### Sockets & accessories

#### Input terminals separated from output terminals

| For type | Order code       |          |           |           |        | Box clamp |                   |                      |        |
|----------|------------------|----------|-----------|-----------|--------|-----------|-------------------|----------------------|--------|
|          | Screw-less clamp |          |           |           |        | Socket    | Metal spring clip | Plastic holding clip | Label  |
| MY2      | PYF08S           | PYCM-08S | PYDM-08SR | PYDM-08SB | R99-11 | PYF14-ESS | PYC-0             | PYC-35               | PYCTR1 |
| MY4      | PYF14S           | PYCM-14S | PYDM-14SR | PYDM-14SB | R99-11 | PYF14-ESS | PYC-0             | PYC-35               | PYCTR1 |

#### Combined input/output terminals

| Order code | Order code     |        |        | Box clamp |                   |                      |        |
|------------|----------------|--------|--------|-----------|-------------------|----------------------|--------|
|            | Screw terminal |        |        | Socket    | Metal spring clip | Plastic holding clip | Label  |
| MY2        | PYF08A-N       | PYC-A1 | PYC-E1 | PYF14-ESN | PYC-0             | PYC-35               | PYCTR1 |
| MY4        | PYF14A-N       | PYC-A1 |        | PYF14-ESN | PYC-0             | PYC-35               | PYCTR1 |

## Specifications

## Coil ratings

| Rated voltage |                                  | Must operate voltage | Must release voltage | Max. voltage | Power consumption (approx.) |
|---------------|----------------------------------|----------------------|----------------------|--------------|-----------------------------|
|               |                                  | % of rated voltage   |                      |              |                             |
| AC            | 6 V, 12 V, 24 V, 48/50 V         | 80% max              | 30% min.             | 110%         | 1.0 to 1.2 VA (60 Hz)       |
|               | 110/120 V, 220/240 V             |                      |                      |              | 0.9 to 1.1 VA (60 Hz)       |
| DC            | 6 V, 12 V, 24 V, 48 V, 100/110 V |                      | 10% min.             |              | 0.9 W                       |

## Contact ratings

| Item                           | 2-pole                                                          |                                         | 4-pole                       |                                         | 4-pole (bifurcated)          |                                         |
|--------------------------------|-----------------------------------------------------------------|-----------------------------------------|------------------------------|-----------------------------------------|------------------------------|-----------------------------------------|
|                                | Resistive load<br>(cosφ = 1)                                    | Inductive load<br>(cosφ = 0.4; L/R = 7) | Resistive load<br>(cosφ = 1) | Inductive load<br>(cosφ = 0.4; L/R = 7) | Resistive load<br>(cosφ = 1) | Inductive load<br>(cosφ = 0.4; L/R = 7) |
| Rated load                     | 5 A at 250 VAC                                                  | 2 A at 250 VAC                          | 3 A at 250 VAC               | 0.8 A at 250 VAC                        | 3 A at 250 VAC               | 0.8 A at 250 VAC                        |
|                                | 5 A at 30 VDC                                                   | 2 A at 30 VDC                           | 3 A at 30 VDC                | 1.5 A at 30 VDC                         | 3 A at 30 VDC                | 1.5 A at 30 VDC                         |
| Rated carry current            | 10 A                                                            |                                         | 5 A                          |                                         |                              |                                         |
| Max. switching voltage         | 250 VAC, 125 VDC                                                |                                         | 250 VAC, 125 VDC             |                                         |                              |                                         |
| Max. switching current         | 10 A                                                            |                                         | 5 A                          |                                         |                              |                                         |
| Max. switching power           | 2,500 VA, 300 W                                                 | 1,250 VA, 300 W                         | 1,250 VA, 150 W              | 500 VA, 150 W                           | 1,250 VA, 150 W              | 500 VA, 150 W                           |
| Failure rate (reference value) | 5 VDC at 1 mA                                                   |                                         | 1 VDC at 1 mA                |                                         | 1 VDC at 100 μA              |                                         |
| Mechanical life                | AC: 50,000,000 operations min., DC: 100,000,000 operations min. |                                         |                              |                                         |                              | 20,000,000 operations min.              |
| Electrical life                | 500,000 operations min.                                         |                                         | 200,000 operations min.      |                                         | 100,000 operations min.      |                                         |

## Technical data

| Item                | 2-pole                            | 4-pole    |
|---------------------|-----------------------------------|-----------|
| Contact Material:   | Ag                                | AgNi + Au |
| Operating time      | 20 ms max.                        |           |
| Release time        | 20 ms max.                        |           |
| Dielectric strength | 2,000 VAC                         |           |
| Ambient temperature | Operating: -55 to 70°C (no icing) |           |
| Size in mm (H×W×D)  | 28×21.5×36                        |           |

## Dimension relay + socket

| Type            | Size in mm (H×W×D)                           |
|-----------------|----------------------------------------------|
| PYF08S + MYS    | 90×23.2×38.2                                 |
| PYF08A-E + MYS  | 76×23×31                                     |
| PYF08A-N + MYS  | 73×22×30                                     |
| PYF14S + MYS    | 89.2×31×36.5                                 |
| PYF14A-E + MYS  | 76×29.5×31                                   |
| PYF14A-N + MYS  | 73×29.5×30                                   |
| PYF14-ESN + MYS | 82×27×80 (incl. plastic holding clip PYC-35) |
| PYF14-ESS + MYS | 83×27×82 (inc. plastic holding clip PYC-35)  |

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| Product                                             | Code   | Reference | Product link               |
|-----------------------------------------------------|--------|-----------|----------------------------|
| Basis for relay connection Red Bridge PYF-14S       | 104266 | PYDM-14SR | <a href="#">Buy on EAN</a> |
| Basis for relay Base MY 7A 8-pin DIN Quick Connect  | 113312 | PYF08S    | <a href="#">Buy on EAN</a> |
| Basis for relay Base MY 14-pin DIN 5A Quick Connect | 113313 | PYF14S    | <a href="#">Buy on EAN</a> |
| Basis for relay, DIN rail clip base                 | 113324 | PYC-A1    | <a href="#">Buy on EAN</a> |
| Basis for relay 100 MY ID Tags                      | 114077 | R99-11    | <a href="#">Buy on EAN</a> |
| Basis for relay, clip fastening for PYF-14S         | 142635 | PYCM-14S  | <a href="#">Buy on EAN</a> |
| Basis for relay connection Blue Bridge PYF-14S      | 152228 | PYDM-14SB | <a href="#">Buy on EAN</a> |
| Basis for relay, DIN rail clip base                 | 156669 | PYC-E1    | <a href="#">Buy on EAN</a> |
| Basis for relay Clip PYF-08S restraint              | 157441 | PYCM-08S  | <a href="#">Buy on EAN</a> |
| Basis for relay Base MY 7A 8-pin DIN                | 168907 | PYF08A-E  | <a href="#">Buy on EAN</a> |
| Basis for relay Base 5A MY 14-pin DIN               | 168908 | PYF14A-E  | <a href="#">Buy on EAN</a> |
| Basis for relay Base MY 7A 9-pin DIN                | 168910 | PYF08A-N  | <a href="#">Buy on EAN</a> |
| Basis for relay Base 5A MY 15-pin DIN               | 168911 | PYF14A-N  | <a href="#">Buy on EAN</a> |
|                                                     | 172044 | PYC-TR1   | <a href="#">Buy on EAN</a> |
|                                                     | 371507 | PYF14-ESN | <a href="#">Buy on EAN</a> |

|                                                                                               |        |            |                            |
|-----------------------------------------------------------------------------------------------|--------|------------|----------------------------|
|                                                                                               | 371509 | PYF14-ESS  | <a href="#">Buy on EAN</a> |
| Socket, with the common and coil terminals on the bottom with the NC & NO terminal on the top | 172040 | PYF 14-ESN | <a href="#">Buy on EAN</a> |
|                                                                                               | 172042 | PYC-35     | <a href="#">Buy on EAN</a> |
| Basis for relay Red Bridge for PYF-08S connection                                             | 113332 | PYDM-08SR  | <a href="#">Buy on EAN</a> |
| Basis for relay Blue Bridge for PYF-08S connection                                            | 113333 | PYDM-08SB  | <a href="#">Buy on EAN</a> |
|                                                                                               | 184512 | PYC-0      | <a href="#">Buy on EAN</a> |