

Plastic distribution box ESP4 series (M8 socket, with M12 plug connector)

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|---|--|--|------------------|--------|
| Description: | | | | |
| Plastic housing, distributed design, 4-way, single/double signal. | | | | |
| Features: | | | | |
| <ul style="list-style-type: none"> Optional output (PNP/NPN) LED indicator and high protection class IP67 Compact size - 93mm, especially suitable for small space installation Standard 3m PUR cable for M12 connector, optional cable material and length | | | | |
| Type List | | | | |
| ESP4-8-2P-Q12 | ESP4-8-2N-Q12 | ESP4-8-3P-Q12 | ESP4-8-3N-Q12 | |
| Technical Data | | | | |
| Output Function | 1 signal | | 2 signals | |
| Output Type | PNP | NPN | PNP | NPN |
| Connection for Sensors/Actuators | 3-pin M8 female | | 4-pin M8 female | |
| Locking Sockets | Threaded M8x1 | | | |
| Dimensions | Fig.1,3 | | Fig.2,3 | |
| Pin Assignment | Fig.4 | | Fig.5 | |
| Wiring Diagram | Fig.9 | Fig.10 | Fig.11 | Fig.12 |
| Supply Voltage | 10...30VDC (24VDC) | | | |
| Supply Voltage Indicator | LED green | | | |
| I/O Channels | 4 | | | |
| Signals per Port | 1 | | 2 | |
| Status Indicators | LED yellow | | LED yellow / red | |
| Operating Current | Max. 1.5A | | | |
| Current Parameter | Max. 1.5A | | | |
| | Please do not operate cables above max. load capacity. | | | |
| Housing Material | Plastic | | | |
| | PC + ABS | | | |
| Protection Class | IP67 | | | |
| Temperature Range | -40...+80°C | | | |
| Resistance | Good resistance against chemicals and oils. The resistance to aggressive media should be individually verified for your application. | | | |
| Connector | M12(12pins) | | | |
| Dimensions | | | | |
| <p>Fig. 1</p> | | <p>Fig. 2</p> | | |
| <p>Fig. 3</p> | | Pin Assignment | | |
| | | <p>Fig. 4</p> <p>4(S1) 3(-) 1(+) 3-pin PNP/NPN 1 signal</p> | | |
| | | <p>Fig. 5</p> <p>4(S1) 2(S2) 3(-) 1(+) 4-pin PNP/NPN 2 signals</p> | | |



| Accessories of Distribution Box -Connector | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|-----------------|-----------------------|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|----|----|----|-------|----|-------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type List | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type | CO12.12-3 / P | CBO12.12-3 / P | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Description | Straight pre-wired connector | Angled pre-wired connector | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cable Material | Standard PUR / PP Bending≥5 million | Standard PUR / PP Bending≥5 million | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cable Length | 3m | 3m | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions | Fig. 6 | Fig. 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin Assignment | Fig. 8 | Fig. 8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimensions | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>Fig. 6</p> | <p>Fig. 7</p> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pin Assignment | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>Fig. 8</p> | <table border="1"> <thead> <tr> <th>12-pin M12 Male</th> <th>Suggested Cable Color</th> </tr> </thead> <tbody> <tr><td>1</td><td>BU</td></tr> <tr><td>2</td><td>BU</td></tr> <tr><td>3</td><td>WH</td></tr> <tr><td>4</td><td>GN</td></tr> <tr><td>5</td><td>PK</td></tr> <tr><td>6</td><td>YE</td></tr> <tr><td>7</td><td>BK</td></tr> <tr><td>8</td><td>GY</td></tr> <tr><td>9</td><td>RD</td></tr> <tr><td>10</td><td>VT</td></tr> <tr><td>11</td><td>GY/PK</td></tr> <tr><td>12</td><td>RD/BU</td></tr> </tbody> </table> | 12-pin M12 Male | Suggested Cable Color | 1 | BU | 2 | BU | 3 | WH | 4 | GN | 5 | PK | 6 | YE | 7 | BK | 8 | GY | 9 | RD | 10 | VT | 11 | GY/PK | 12 | RD/BU |
| 12-pin M12 Male | Suggested Cable Color | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | BU | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | BU | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | WH | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | GN | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | PK | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | YE | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | BK | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | GY | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | RD | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | VT | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | GY/PK | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | RD/BU | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wiring Diagram | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Fig. 9 Connector</p> <p>LED indicator PNP</p> | <p>Fig. 10 Connector</p> <p>LED indicator NPN</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Fig. 11 Connector</p> <p>LED indicator PNP</p> | <p>Fig. 12 Connector</p> <p>LED indicator NPN</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | |