

Reed Auto Switch/Direct Mounting Type 3C-D-A93-1290

Ex ec IIC T5 Gc -10°C ≤ Ta ≤ + 60°C
Ex tc IIIC T93°C Dc

Grommet



Specifications

PLC: Programmable Logic Controller

| D-A93 (With indicator light) | |
|---|--|
| Auto switch model | 3C-D-A93-1290 |
| Applicable load | Relay, PLC |
| Load voltage | 24 VDC |
| Load current range and Maximum load current | 5 to 40 mA |
| Contact protection circuit | None |
| Internal voltage drop | D-A93: 2.4 V or less (up to 20 mA)/3 V or less (up to 40 mA) |
| Indicator light | Red LED illuminates when turned ON. |

Oilproof Heavy-duty Lead Wire Specifications

| Auto switch model | | 3C-D-A93-1290 |
|-------------------|--|----------------------|
| Sheath | Outside diameter [mm] | ø2.7 |
| | Number of cores | 2 cores (Brown/Blue) |
| Insulator | Outside diameter [mm] | ø0.96 |
| | Effective area [mm ²] | 0.18 |
| Conductor | Strand diameter [mm] | ø0.08 |
| | Lead wire minimum bending radius [mm] (Reference values) | 17 |

• Can only be used in Zones 2 and 22

How to Order

3C - D - A93 **- 1290**

• China Compulsory Certification (CCC) compliant products

• CCC certified explosion-proof electrical product (Increased safety/ Dust protection)

• Lead wire length

| | |
|------|-------|
| Nil* | 0.5 m |
| L | 3 m |
| Z* | 5 m |

Part numbers with an asterisk (*) are produced upon receipt of order.

Solid State Auto Switch/Direct Mounting Type

3C-D-M9N(V)-1290/3C-D-M9P(V)-1290/3C-D-M9B(V)-1290

Ex ec IIC T5 Gc -10°C ≤ Ta ≤ + 60°C
Ex tc IIIC T93°C Dc

Grommet

- 2-wire load current is reduced (2.5 to 40 mA).
- Using flexible cable as standard spec.



⚠ Caution

Precautions

Fix the auto switch with the existing screw installed on the auto switch body. The auto switch may be damaged if a screw other than the one supplied is used.

Specifications

PLC: Programmable Logic Controller

| 3C-D-M9□-1290, 3C-D-M9□V-1290 (With indicator light) | | | | | | |
|--|---|----------------|---------------|----------------|-----------------------|----------------|
| Auto switch model | 3C-D-M9N-1290 | 3C-D-M9NV-1290 | 3C-D-M9P-1290 | 3C-D-M9PV-1290 | 3C-D-M9B-1290 | 3C-D-M9BV-1290 |
| Electrical entry direction | In-line | Perpendicular | In-line | Perpendicular | In-line | Perpendicular |
| Wiring type | 3-wire | | | 2-wire | | |
| Output type | NPN | | PNP | | — | |
| Applicable load | IC circuit, Relay, PLC | | | | 24 VDC relay, PLC | |
| Power supply voltage | 5, 12, 24 VDC (4.5 to 28 V) | | | | — | |
| Current consumption | 10 mA or less | | | | — | |
| Load voltage | 28 VDC or less | | — | | 24 VDC (10 to 28 VDC) | |
| Load current | 40 mA or less | | | 2.5 to 40 mA | | |
| Internal voltage drop | 0.8 V or less at 10 mA (2 V or less at 40 mA) | | | | 4 V or less | |
| Leakage current | 100 μA or less at 24 VDC | | | | 0.8 mA or less | |
| Indicator light | Red LED illuminates when turned ON. | | | | | |

● Can only be used in Zones 2 and 22

Oilproof Flexible Heavy-duty Lead Wire Specifications

| Auto switch model | | 3C-D-M9N(V)-1290 | 3C-D-M9P(V)-1290 | 3C-D-M9B(V)-1290 |
|--|-----------------------------------|----------------------------|------------------|----------------------|
| Sheath | Outside diameter [mm] | ø2.6 | | |
| Insulator | Number of cores | 3 cores (Brown/Blue/Black) | | 2 cores (Brown/Blue) |
| | Outside diameter [mm] | ø0.88 | | |
| Conductor | Effective area [mm ²] | 0.15 | | |
| | Strand diameter [mm] | ø0.05 | | |
| Minimum bending radius [mm] (Reference values) | | 17 | | |

How to Order

3C - D - M9 N V L - 1290

● China Compulsory Certification (CCC) compliant products

● Auto switch part no

● Wiring and output

| | |
|----------|------------|
| N | 3-wire NPN |
| P | 3-wire PNP |
| B | 2-wire |

● Electrical entry direction

| | |
|------------|---------------|
| Nil | In-line |
| V | Perpendicular |

● CCC certified explosion-proof electrical product (Increased safety/ Dust protection)

● Lead wire length

| | |
|-------------|--|
| Nil | 0.5 m |
| L | 3 m |
| Z | 5 m |
| SAPC | 0.5 m + M8 - 3 pins pre-wired connector |
| MAPC | 1 m + M8 - 3 pins pre-wired connector |
| SBPC | 0.5 m + M8 - 4 pins pre-wired connector |
| MBPC | 1 m + M8 - 4 pins pre-wired connector |
| SDPC | 0.5 m + M12 - 4 pins pre-wired connector |
| MDPC | 1 m + M12 - 4 pins pre-wired connector |

Connector Specifications

| Connector type | M8-3 pins | M8-4 pins | M12-4 pins |
|-----------------|-----------|-----------|------------|
| Pin arrangement | | | |

2-Color Indicator Solid State Auto Switch/Direct Mounting Type

3C-D-M9NW(V)-1290/3C-D-M9PW(V)-1290/3C-D-M9BW(V)-1290

Ex ec IIC T5 Gc -10°C ≤ Ta ≤ + 60°C
Ex tc IIIC T93°C Dc

Grommet

- 2-wire load current is reduced (2.5 to 40 mA).
- Using flexible cable as standard spec.



⚠ Caution

Precautions

Fix the auto switch with the existing screw installed on the auto switch body. The auto switch may be damaged if a screw other than the one supplied is used.

Auto Switch Specifications

PLC: Programmable Logic Controller

| 3C-D-M9□W-1290, 3C-D-M9□WV-1290 (With indicator light) | | | | | | |
|--|---|-----------------|----------------|-----------------|-----------------------|-----------------|
| Auto switch model | 3C-D-M9NW-1290 | 3C-D-M9NWV-1290 | 3C-D-M9PW-1290 | 3C-D-M9PWV-1290 | 3C-D-M9BW-1290 | 3C-D-M9BWV-1290 |
| Electrical entry direction | In-line | Perpendicular | In-line | Perpendicular | In-line | Perpendicular |
| Wiring type | 3-wire | | | 2-wire | | |
| Output type | NPN | | PNP | | — | |
| Applicable load | IC circuit, Relay, PLC | | | | 24 VDC relay, PLC | |
| Power supply voltage | 5, 12, 24 VDC (4.5 to 28 V) | | | | — | |
| Current consumption | 10 mA or less | | | | — | |
| Load voltage | 28 VDC or less | | — | | 24 VDC (10 to 28 VDC) | |
| Load current | 40 mA or less | | | 2.5 to 40 mA | | |
| Internal voltage drop | 0.8 V or less at 10 mA (2 V or less at 40 mA) | | | | 4 V or less | |
| Leakage current | 100 μA or less at 24 VDC | | | | 0.8 mA or less | |
| Indicator light | Operating range Red LED illuminates. Proper operating range Green LED illuminates. | | | | | |

• Can only be used in Zones 2 and 22

Oilproof Flexible Heavy-duty Lead Wire Specifications

| Auto switch model | | 3C-D-M9NW(V)-1290 | 3C-D-M9PW(V)-1290 | 3C-D-M9BW(V)-1290 |
|--|-----------------------------------|----------------------------|-------------------|----------------------|
| Sheath | Outside diameter [mm] | ø2.6 | | |
| Insulator | Number of cores | 3 cores (Brown/Blue/Black) | | 2 cores (Brown/Blue) |
| | Outside diameter [mm] | ø0.88 | | |
| Conductor | Effective area [mm ²] | 0.15 | | |
| | Strand diameter [mm] | ø0.05 | | |
| Minimum bending radius [mm] (Reference values) | | 17 | | |

How to Order

3C - D - M9 N W V L - 1290

China Compulsory Certification (CCC) compliant products

● CCC certified explosion-proof electrical product (Increased safety/ Dust protection)

Auto switch part no ●

Wiring and output ●

| | |
|---|------------|
| N | 3-wire NPN |
| P | 3-wire PNP |
| B | 2-wire |

2-color indicator ●

Electrical entry direction ●

| | |
|-----|---------------|
| Nil | In-line |
| V | Perpendicular |

● Lead wire length

| | |
|------|--|
| Nil | 0.5 m |
| L | 3 m |
| Z | 5 m |
| SAPC | 0.5 m + M8 - 3 pins pre-wired connector |
| MAPC | 1 m + M8 - 3 pins pre-wired connector |
| SBPC | 0.5 m + M8 - 4 pins pre-wired connector |
| MBPC | 1 m + M8 - 4 pins pre-wired connector |
| SDPC | 0.5 m + M12 - 4 pins pre-wired connector |
| MDPC | 1 m + M12 - 4 pins pre-wired connector |

Connector Specifications

| Connector type | M8-3 pins | M8-4 pins | M12-4 pins |
|-----------------|-----------|-----------|------------|
| Pin arrangement | | | |