

# Electronic Counters

## General information

### Electronic counters

FUJI electronic counters are available in either preset types, totalizing types or positioning types. They are either DIN-sized 48 × 48mm or 72 × 72mm, thus facilitating panel cutting. They fit into FUJI standard sockets.



AF92-149

#### MC4 type

MC4-D digital setting and display type preset counters are based on a one-chip microprocessor.

- DIN-sized 48mm square economical counter
- Maximum counting speeds of 30Hz or 100Hz
- Zero-suppressed display

See page 03/74 for further information.



CP-1853

#### MC4E type

MC4Es are UP/DOWN changeover type electronic preset counters, which are easy to operate and cost-effective.

- DIN-sized 48mm square counter
- Maximum counting speeds of 30Hz
- Easy-to-read large size backlit LCD display
- Budget priced

See page 03/75 for further information.



SP-720

#### Time counters

##### MA4 type

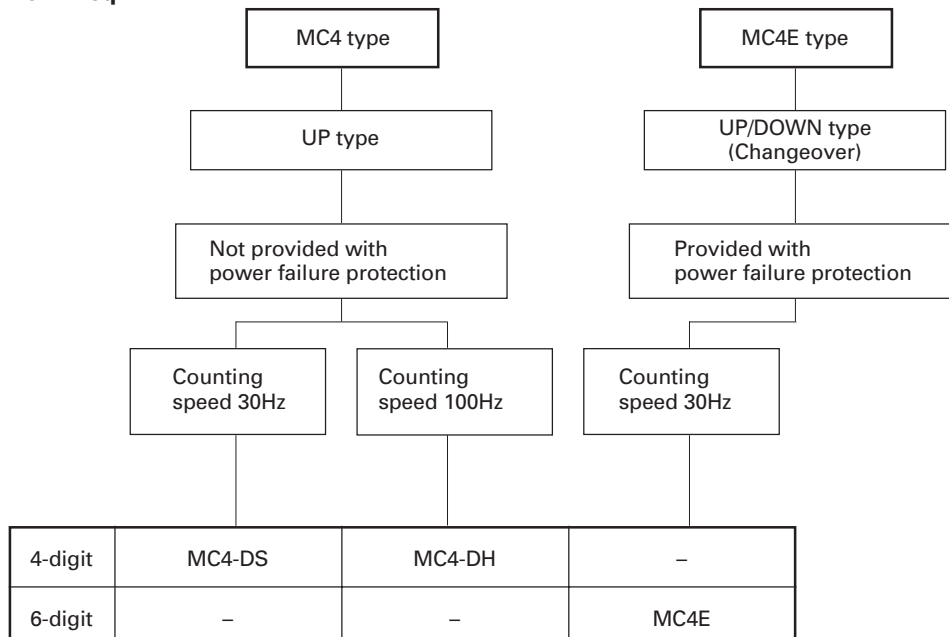
MA4 series time counters are used to display the total operating time. The operating time is displayed cumulatively.

- DIN-sized 48mm square cumulative time counter
- Input voltage 100–110/200–220V AC
- Available with reset button
- Provided with rotary operating indicator

See page 03/78 for further information.

### ■ Selection guide

- DIN-sized 48mm sq.



■ Types and ordering codes

● Counter

| Description    | Operation                        | Digital display       | Counting speed | Data memory function | Type   | Ordering code  | Input voltage                            |
|----------------|----------------------------------|-----------------------|----------------|----------------------|--|--|--|
| Preset counter | 1-step preset UP                 | 7-segment LED 4-digit | 30Hz           | Not provided         | <b>MC4-DS</b>  | MC4NS-AHS<br>MC4NS-AMS<br>MC4NS-DES                              | 100 – 110V AC<br>200 – 220V AC<br>24V DC |
|                |                                  |                       | 100Hz          | Not provided         | <b>MC4-DH</b>  | MC4NM-AHM<br>MC4NM-AMM<br>MC4NM-DEM                              | 100 – 110V AC<br>200 – 220V AC<br>24V DC |
|                | 1-step preset UP/DOWN changeover | Backlit LED 6-digit   | 30Hz           | Provided             | <b>MC4E</b>  | MC4ES-AK<br>MC4ES-AP<br>MC4ES-DE                                 | 100 – 120V AC<br>200 – 240V AC<br>24V DC |
| Time counter   | Integrative                      | Rotary/5-digit        | –              | –                    | <b>MA4</b><br><b>MA4-R</b><br><b>MA4-R-M</b><br><b>MA4-B</b><br><b>MA4-R-B</b> | MC5N-AM99<br>MC5R-AMH9<br>MC5RM-AMM9<br>MC5NB-AM99<br>MC5RB-AMH9 | 100 – 110/<br>200 – 220V AC              |

● Socket

| Type            | Ordering code | Mounting     | Used with Counter type |
|-----------------|---------------|--------------|------------------------|
| <b>TP28X-UL</b> | MX88X2        | Surface/Rail | MC4                    |
| <b>TP48X</b>    | MX48X2        | Surface/Rail | MC4E                   |
| <b>ATX1NS</b>   | MX48NS        | Flush        | MC4                    |
| <b>TP48SB</b>   | MX48N1        | Flush        | MC4E, MC4              |
| <b>8GB</b>      | MX8G          | Surface      | MC4E                   |

■ Input voltage code

| Voltage                 | Code |
|-------------------------|------|
| 100 – 110V AC           | AH   |
| 100 – 120V AC           | AK   |
| 100 – 110/200 – 220V AC | AM   |
| 200 – 220V AC           | AW   |
| 200 – 240V AC           | AP   |
| 24V DC                  | DE   |

■ Selection guide

| Type                     | MC4-DS  | MC4-DH | MC4E                                   | MA4, MA4-B                  | MA4-R, MA4-R-M, MA4-R-B |
|--------------------------|---|--------|--|-----------------------------|-------------------------|
| Description              | 1-step preset (UP)                            |        | 1-step preset (UP/DOWN changeover)     | Integrative                 |                         |
| Input voltage            | 100–110V, 200–220V AC 50/60Hz, 24V DC         |        | 100–240V, 100–120V AC, 50/60Hz, 24V DC | 100–110/200–220V AC 50/60Hz |                         |
| Counting speed           | 30Hz  | 100Hz  | 30Hz                                   | –                           |                         |
| Operating mode           | N mode  |        | N, F, C mode                           | –                           |                         |
| Indication               | 7-segment LED and count-up                    |        |  | Rotary/5-digit              |                         |
| Counting input           | Relay contact (ON/OFF) or solid-state(ON/OFF) |        |  | Voltage input               | Voltage input           |
| Reset input              | –   |        |  | –                           | Manual reset            |
| Output contact           | Relay contact:1NO                             |        |  | –                           |                         |
| Power supply for sensor  | Not provided                                  |        |  | –                           |                         |
| Power failure protection | Not provided                                  |        | Provided                               | –                           |                         |
| Terminal                 | 8-pin socket                                  |        |  | Screw M3.5                  |                         |
| Mass                     | Approx. 170g                                  |        | Approx. 110g                           | Approx. 150g                |                         |