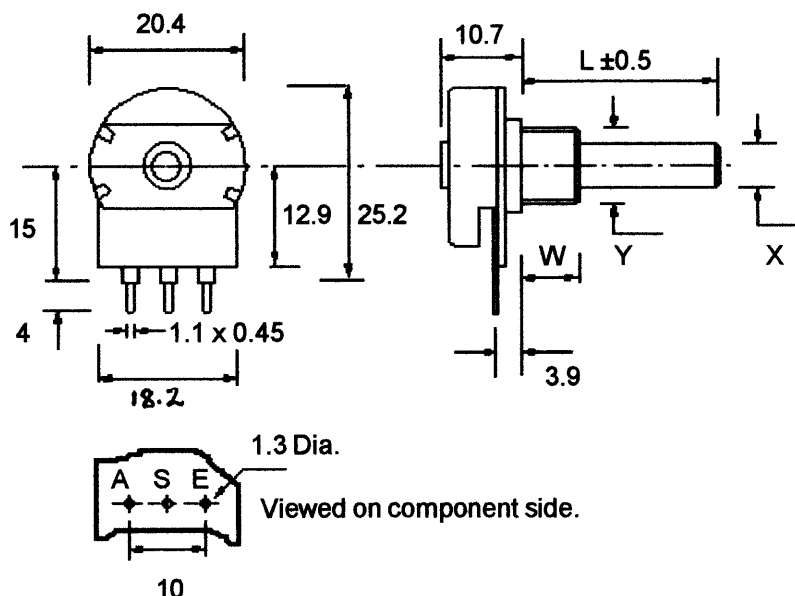
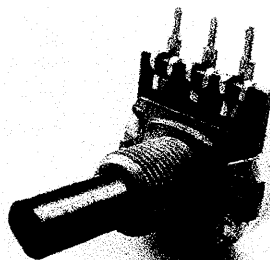




| SPINDLE VARIATIONS *   |        | BUSH VARIATIONS † |        |             |
|------------------------|--------|-------------------|--------|-------------|
| Type                   | X (mm) | Y (mm)            | W (mm) | Type        |
| Plastic Fixed          | 6      | M10 x 0.75        | 7      | CP          |
| Plastic Fixed          | 6      | M10 x 0.75        | 10     | CP          |
| Plastic Fixed          | 6      | M10 x 0.75        | 9      | C or CEBS   |
| Plastic Fixed          | 6      | 9.52 x 32 tpi     | 8      | CBS         |
| Plastic or Metal Fixed | 4      | M7 x 0.75         | 6      | CG          |
| Plastic Fixed          | 6.35   | 9.52 x 32 tpi     | 8      | CBS or CBSL |
| Plastic Fixed          | 6.35   | 9.52 x 32 tpi     | 12     | CBS or CBSL |

Flatted spindles are available.

\*See P20 Potentiometer 'SPINDLE DATA' leaflets for more information.

† See P20 Potentiometer 'BUSH DATA' leaflet for more information.

Mechanical and Electrical Specification - see separate leaflet.

**TO ORDER** see over.

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## P20 POTENTIOMETER MECHANICAL & ELECTRICAL DATA

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### MECHANICAL DATA

|                                |                        |
|--------------------------------|------------------------|
| Rotation angle $\phi_N$        | 300° $\pm 5^\circ$     |
| Operating Torque               | 0.4 - 1.5 Ncm          |
| Permissible Torque at End Stop | 80 Ncm                 |
| Permissible Axial Spindle Load | 100 N (5 Sec. maximum) |

### ELECTRICAL DATA

|                                                      |                                                   |
|------------------------------------------------------|---------------------------------------------------|
| Effective Electrical Rotation $\phi_E$               |                                                   |
| • Without switch                                     | 267° nominal.                                     |
| • With switch                                        | 232° nominal.                                     |
| Rated dissipation (maximum†) @ 40°C                  | 0.4 W linear law                                  |
| †See Power Dissipating Curve.                        | 0.2 W non linear law                              |
| Element Voltage (maximum‡)                           | 500V DC                                           |
| ‡See Working Voltage Curve.                          |                                                   |
| Insulation Resistance                                | $\geq 4$ Gohms                                    |
| Insulation Voltage                                   | 1000 V AC                                         |
| Rated Resistance                                     | E3 Series                                         |
| • Optional - E6 Series                               |                                                   |
| • Linear Law                                         | 1K - 1M                                           |
| • Non linear Law                                     | 4K7 - 470K                                        |
| Tolerance on Rated Resistance                        | $\pm 20\%$                                        |
| • Optional 1K - 1M                                   | $\pm 10\%$                                        |
| Resistance Law                                       |                                                   |
| • Linear                                             | A                                                 |
| • Non linear                                         | B or C                                            |
| See Law Curves leaflets for more information.        |                                                   |
| Note. Other laws by consultation.                    |                                                   |
| Operating temperature                                | -25° C to +70° C (See Temperature Derating Curve) |
| Temperature Coefficient of Resistance                | +300 -500 ppm                                     |
| Life                                                 | >20,000 cycles                                    |
| Linearity                                            | $\pm 4\%$ (See Independent Linearity leaflet)     |
| Matching Tolerance (Tandem Stereo Potentiometers)    |                                                   |
| • Law A                                              | 4 dB at Attenuation range 0 - 20 dB.              |
| • Law B & C                                          | 3 dB at Attenuation range 0 - 20 dB.              |
| See Matching Tolerance leaflet for more information. |                                                   |

### CLICK STOP POTENTIOMETERS

Centre indent, 11 & 21 positions available on certain models. Please enquire.

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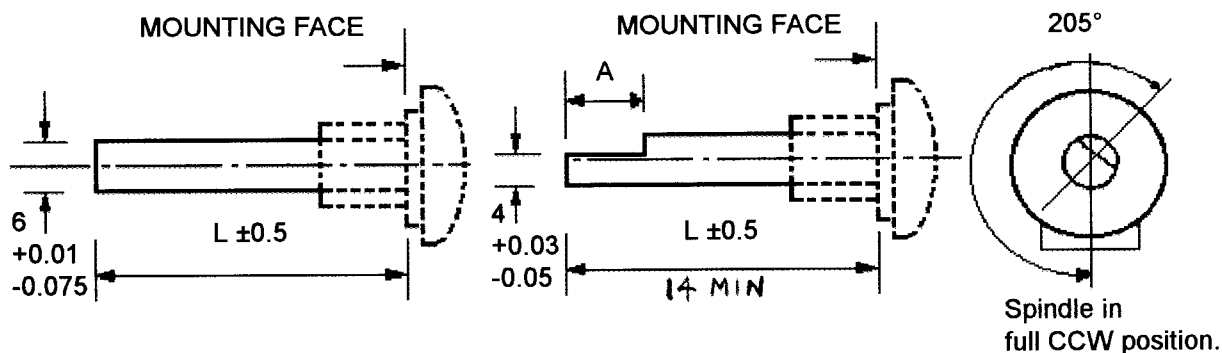
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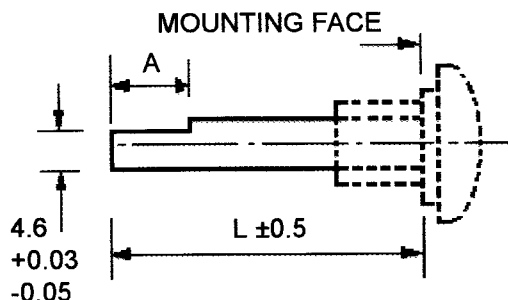
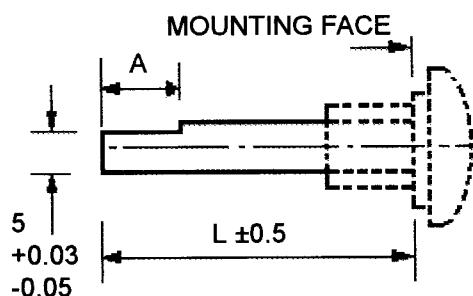
Iss. A mh08/00

### 6 mm Diameter Plastic Spindles



| TYPE | DESC          | L (mm)   |
|------|---------------|----------|
| F1   | Plastic Fixed | 15 to 65 |

| TYPE | DESC          | L (mm)   | A (mm) |
|------|---------------|----------|--------|
| F2   | Plastic Fixed | 15 to 65 | 12     |



| TYPE | DESC          | L (mm)   | A (mm) |
|------|---------------|----------|--------|
| F3   | Plastic Fixed | 15 to 65 | 15     |
| F4   | Plastic Fixed | 15 to 20 | 10     |

| TYPE | DESC          | L (mm)   | A (mm) |
|------|---------------|----------|--------|
| F11  | Plastic Fixed | 15 to 60 | 15     |

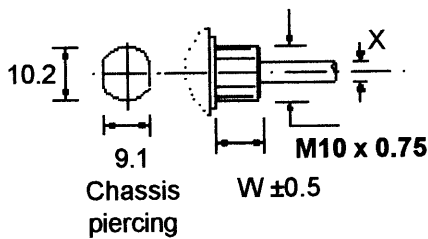
**REMOVABLE SPINDLES**, similar in specification to 'fixed' spindles are supplied separate from the potentiometer. These can be indefinitely taken in and out. Holding strength >1Kg.

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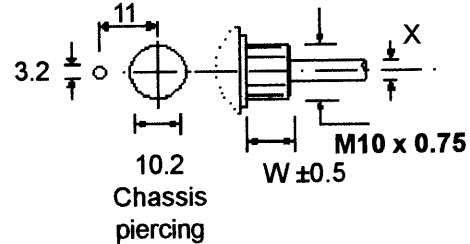
Iss. C mh04/02

## DIECAST ZINC ALLOY



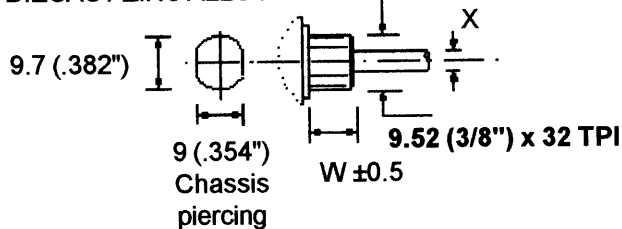
| Type C (without locator) |   |
|--------------------------|---|
| X (mm)                   | 6 |
| W (mm)                   | 9 |

## DIECAST ZINC ALLOY



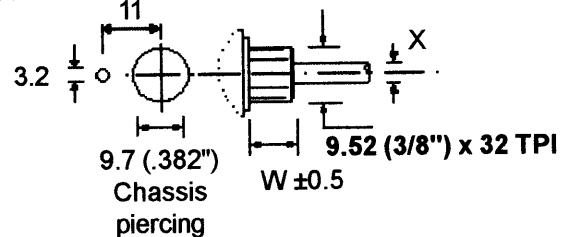
| Type CEBS (with locator) |   |
|--------------------------|---|
| X (mm)                   | 6 |
| W (mm)                   | 9 |

## DIECAST ZINC ALLOY



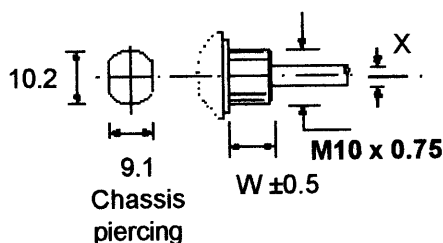
| Type CBS (without locator) |   |      |      |
|----------------------------|---|------|------|
| X (mm)                     | 6 | 6.35 | 6.35 |
| W (mm)                     | 8 | 8    | 12   |

## DIECAST ZINC ALLOY



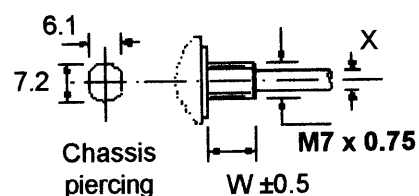
| Type CBSL (with locator) |      |      |
|--------------------------|------|------|
| X (mm)                   | 6.35 | 6.35 |
| W (mm)                   | 8    | 12   |

## GLASS FILLED NYLON



| Type CP (GFN) |   |    |         |
|---------------|---|----|---------|
| X (mm)        | 6 | 6  | 6.35    |
| W (mm)        | 7 | 10 | 7 or 10 |

## DIECAST ZINC ALLOY



| Type CG (without locator) |   |
|---------------------------|---|
| X (mm)                    | 4 |
| W (mm)                    | 6 |

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