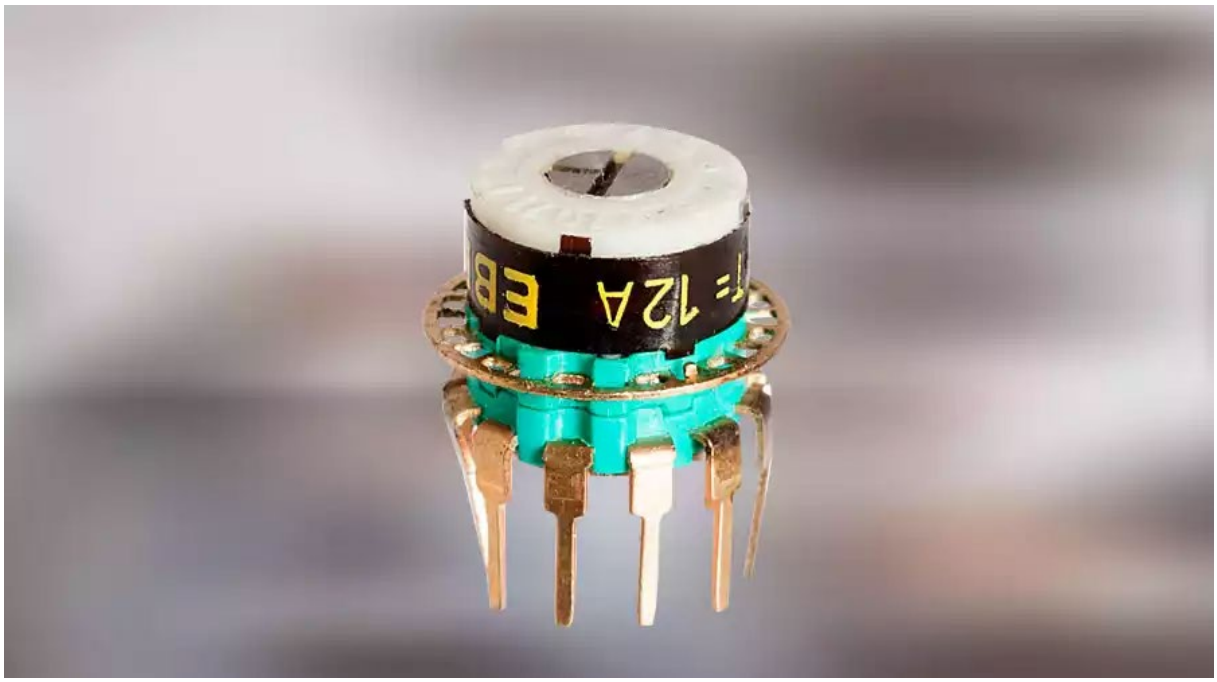
MY/EMY – HMI-Switches



DESCRIPTION

Miniature rotary switch with 1 to 4 wafers.

- Multi-wafer version for conventional wiring.
- Single-wafer switch for direct PCB soldering and optional additional thread for fixing to PCB.
- 1 to 3 circuits per wafer.
  Detent angles 30°, 36° or 60°.
- Shorting or non-shorting mode of switching.

Special designs:

- Watertight against front panel.
- Enlarged distance between wafers.
- BCD coding version with detent angle 30°.

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TECHNICAL DATA

CONSTRUCTION AND MECHANICAL DATA , TYPICAL VALUES (T=23°C)

NUMBER OF WAFERS MAX.	4 wafers
SWITCHING COMBINATIONS PER WAFER	
DESIGN B, DETENT ANGLE 60°	1x6 to 1x2; 2x3 to 2x2; 3x2
DESIGN D, DETENT ANGLE 36°	1x10 to 1x2; 2x5 to 2x2
DESIGN E, DETENT ANGLE 30°	1x12 to 1x2; 2x6 to 2x2; 3x4 to 3x2; 4x3 to 4x2 on request
CONTACTS	Soldering lugs, single wafer-switch also soldering pins
MOUNTING	Central mounting, single wafer switch soldered or optional screw mounting
SWITCHING MODE	Shorting or non-shorting
STOPS	Fixed or without stop
OPERATING TORQUE ACC. TO DESIGN	Typically ≥3 Ncm
STOP STRENGTH TYPICALLY	≥50 Ncm (central mounting); ≥25 Ncm (soldering mounting)
FASTENING TORQUE MAX.	Typically 90 Ncm
DUST PROTECTION	Sealed wafer
CONTACT MATERIAL	Ag or AuNi
INSULATION MATERIAL WATER	Diallylphthalate, DAP; Code DI
INSULATION MATERIAL ROTOR	Polycarbonate, PC
SOLDERING TIME AND TEMP.	5s at 260°C

ELECTRICAL DATA, TYPICAL VALUES (T=23°C)

	Ag-version	**AuNi-version**
SWITCHING POWER MAX.	5VA/W	3VA/W
SWITCHING CURRENT MAX.	200mA	100mA
REST CURRENT MAX. AT 20°C	1.5A	1.5A
CONTACT RESISTANCE INITIAL VALUE	≤8 mΩ	≤12 mΩ
INSULATION RESISTANCE	$\geq 10^{11}$ Ω	$\geq 10^{11}$ Ω

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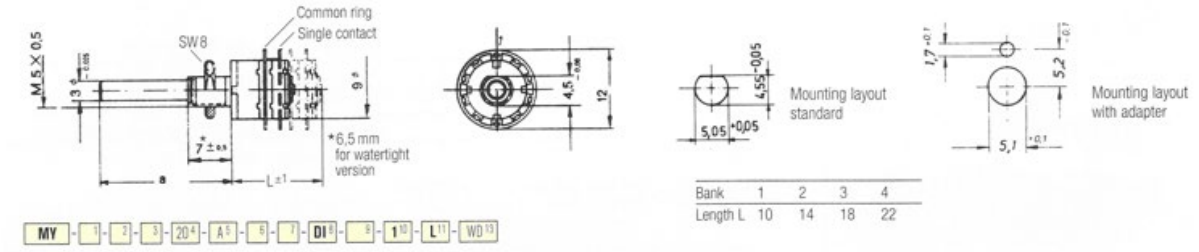
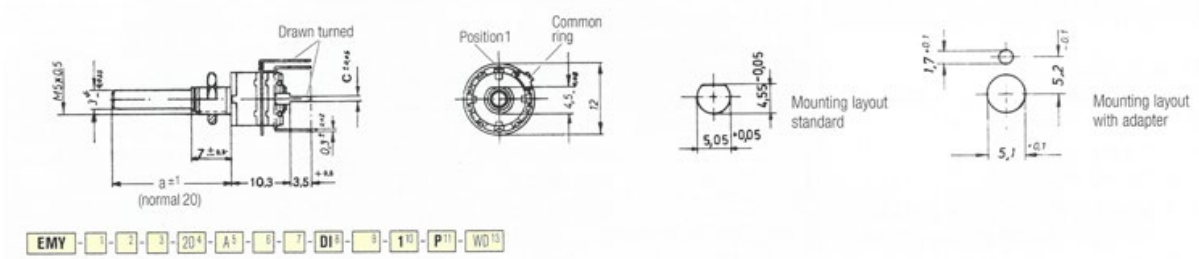
DIMENSIONS

The bold-typed data in the yellow order blocks remain unchanged.
Normal-typed data matches the drawings and can be modified according to your wishes.
Blanks need to be completed according to the ordering details on the inside front cover.

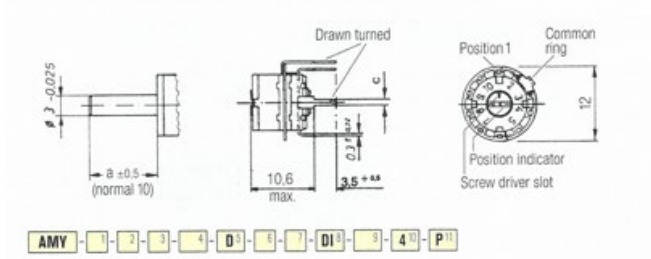
Dimensional Drawings · Dimensions in mm



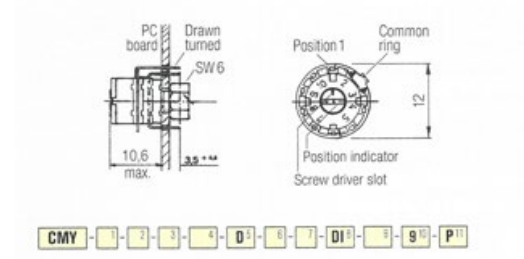
MY – With soldering lugs



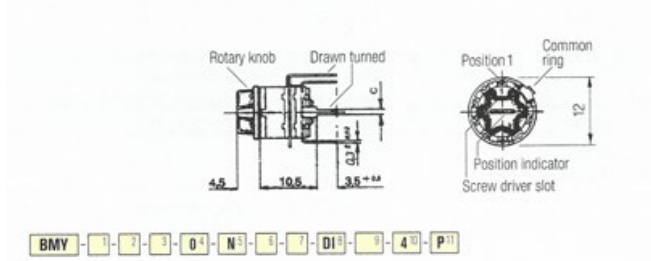
EMY – With soldering pins



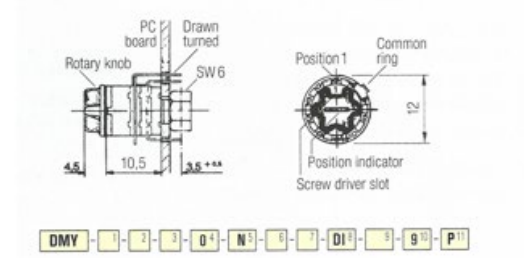
AMY – Special version with screw driver slot



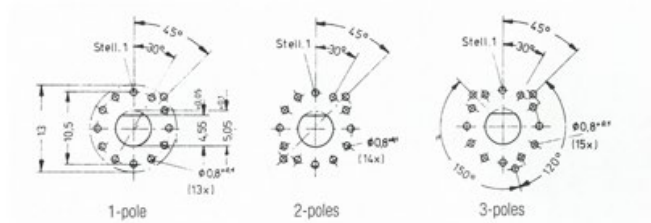
CMY – With additional screw mounting

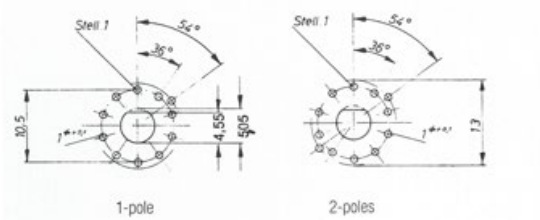


BMY – Special version with operating knob



DMY – With additional screw mounting





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SAFETY AND WARNING NOTES

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REVISION

REVISION	DATE	DESCRIPTION
1.0	29.06.2026	Initial Data Sheet Short Version

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