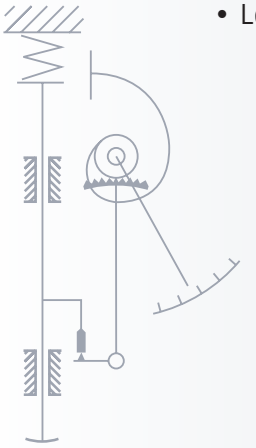
TESA CARY Microcomparators MCA-8

The absolute precision

Specially designed for high precision measurement by comparison (from ±0,8 µm) – Ideal for checking axial and radial runouts with a very low hysteresis (from 0,3 µm).

- TESA CARY precision mechanism mounted parallel to the measuring axis in compliance with the Abbe principle.
- Streamlined steel case with high rigidity.
- High precision throughout the measuring travel (from 0,8 µm).
- Very low measuring force (from 150 mN).
- Non-rotating dial. Quickly set to zero by moving the pointer with just a thumb grip.
- Low sensitivity to temperature variations.



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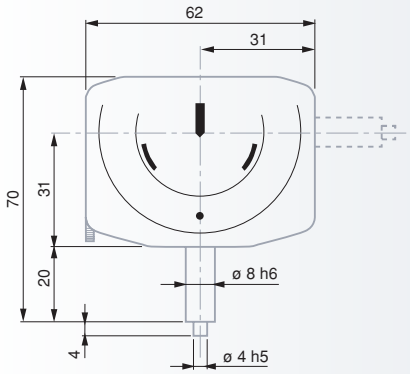
- DIN 879
- Non-rotating dial
- Fine setting by moving the pointer
- Metal housing. Stainless steel plunger, hardened.
- Adjustable tolerance markers
- Measuring insert with a M2,5 thread
- Mounted insert with a 3 mm dia. steel ball tip
- 110 g
- Plastic case
- Identification number
- Inspection report with a declaration of conformity

No		mm	mm	mm	mN		Range for zero setting mm
01410420	MCA8-1-500	0,0005	0,05	3	500	25 ÷ 0 ÷ 25	± 0,003
01410421	MCA8-1-150	0,0005	0,05	3	150	25 ÷ 0 ÷ 25	± 0,003
01410422	MCA8-1-300	0,0005	0,05	3	300	25 ÷ 0 ÷ 25	± 0,003
01410423	MCA8-2-500	0,001	0,1	3	500	50 ÷ 0 ÷ 50	± 0,006
01410425	MCA8-2-150	0,001	0,1	3	150	50 ÷ 0 ÷ 50	± 0,006
01410426	MCA8-2-300	0,001	0,1	3	300	50 ÷ 0 ÷ 50	± 0,006
01410427	MCA8-3-500	0,002	0,2	3	500	100 ÷ 0 ÷ 100	± 0,012
01410428	MCA8-3-150	0,002	0,2	3	150	100 ÷ 0 ÷ 100	± 0,012
01410429	MCA8-3-300	0,002	0,2	3	300	100 ÷ 0 ÷ 100	± 0,012
Lateral model							
01410424	MCA8-2-L	0,001	0,1	3	500	50 ÷ 0 ÷ 50	± 0,006
Accessory							
On request	Sealing bellow (to be specified when ordering)						



Maximum permissible errors

	0,0005 mm	0,001 mm	0,002 mm
Max. perm. errors, G_{ges}	0,8 µm	0,8 µm	1,0 µm
Repeatability limit, r	0,4 µm	0,3 µm	0,3 µm
Max. hysteresis, f_u	0,3 µm	0,3 µm	0,3 µm