

Technical data

| Scale tape ring on flange 1000µm | | WMF 1010A / WMB 1010A | | | | | | | | | | | |
|---|--|--------------------------|----|--------|-----|--------|-----|--------|------|--------|------|--------|------|
| Line count | | 256 | | 360 | | 512 | | 720 | | 900 | | 1024 | |
| Reference mark | | Single or distance coded | | | | | | | | | | | |
| <u>Grating period accuracy</u> ¹⁾ | | | | | | | | | | | | | |
| ± 10µm arc length | | ±51" | | ±36" | | ±26" | | ±18" | | ±15" | | ±13" | |
| ± 5µm arc length | | ±26" | | ±18" | | ±13" | | ±9,0" | | ±7,5" | | ±6,5" | |
| ± 3µm arc length | | ±16" | | ±11" | | ±8,0" | | ±5,5" | | ±4,5" | | ±4,0" | |
| Outside diameter [mm] | | 81,95 | | 115,12 | | 163,54 | | 229,78 | | 287,08 | | 326,55 | |
| Inside diameter [mm] | | 60 | 60 | 95 | 105 | 143 | 180 | 209 | 180 | 266 | 220 | 296 | |
| Max. angle acceleration [rad/s ²] ²⁾ | | 4000 | | | | | | 2200 | 4000 | 1700 | 4000 | 1250 | 3800 |
| Mech. speed [min ⁻¹] ²⁾ | | 25000 | | 20000 | | 15000 | | 10000 | | 8000 | | 6000 | |

¹⁾ The position error per grating period and the accuracy of the grating result together in the encoder specific error; additional deviations caused by mounting and bearing are not considered in this error.

²⁾ Values should be considered to ensure a mechanical fault exclusion.

