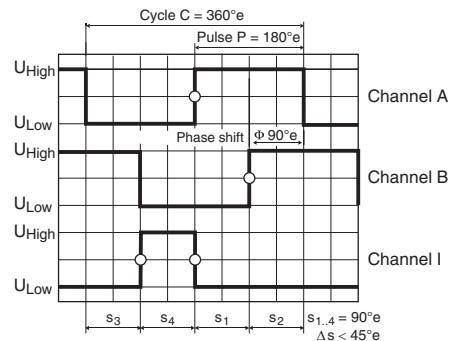
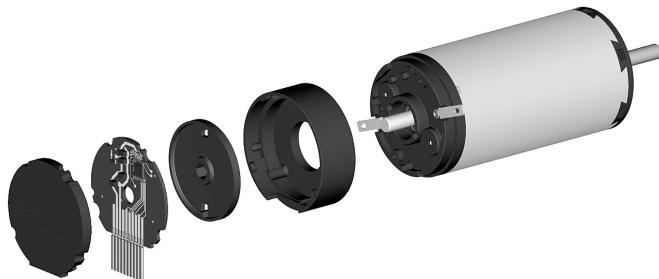


Encoder MR Type L, 256-1024 CPT, 3 Channels, with Line Driver



Direction of rotation cw (definition cw p. 48)

- Stock program
- Standard program
- Special program (on request)

Type

| | | Order Number | 225783 | 228452 | 225785 | 228456 | 225787 |
|--------------------------------|-------|--------------|--------|--------|--------|--------|--------|
| Counts per turn | 256 | 500 | 512 | 1000 | 1024 | | |
| Number of channels | 3 | 3 | 3 | 3 | 3 | | |
| Max. operating frequency (kHz) | 80 | 200 | 160 | 200 | 320 | | |
| Max. speed (rpm) | 18750 | 24000 | 18750 | 12000 | 18750 | | |



maxon Modular System

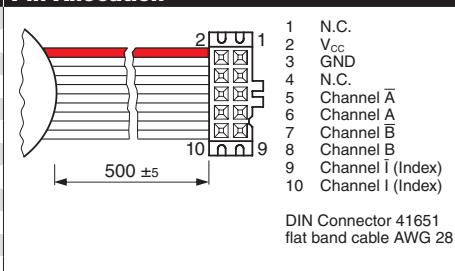
| + Motor | Page | + Gearhead | Page | + Brake | Page | Overall length [mm] / ● see Gearhead | | | |
|------------------|---------|----------------------|---------|---------|------|--------------------------------------|-------|-------|-------|
| RE 30, 60 W | 80 | | | | | 79.4 | 79.4 | 79.4 | 79.4 |
| RE 30, 60 W | 80 | GP 32, 0.75 - 4.5 Nm | 229 | | | ● | ● | ● | ● |
| RE 30, 60 W | 80 | GP 32, 0.75 - 6.0 Nm | 231/232 | | | ● | ● | ● | ● |
| RE 30, 60 W | 80 | GP 32 S | 249-251 | | | ● | ● | ● | ● |
| RE 35, 90 W | 81 | | | | | 82.4 | 82.4 | 82.4 | 82.4 |
| RE 35, 90 W | 81 | GP 32, 0.75 - 4.5 Nm | 229 | | | ● | ● | ● | ● |
| RE 35, 90 W | 81 | GP 32, 0.75 - 6.0 Nm | 231/232 | | | ● | ● | ● | ● |
| RE 35, 90 W | 81 | GP 32, 4.0 - 8.0 Nm | 234 | | | ● | ● | ● | ● |
| RE 35, 90 W | 81 | GP 42, 3 - 15 Nm | 237 | | | ● | ● | ● | ● |
| RE 35, 90 W | 81 | GP 32 S | 249-251 | | | ● | ● | ● | ● |
| RE 40, 150 W | 82 | | | | | 82.4 | 82.4 | 82.4 | 82.4 |
| RE 40, 150 W | 82 | GP 42, 3 - 15 Nm | 237 | | | ● | ● | ● | ● |
| RE 40, 150 W | 82 | GP 52, 4 - 30 Nm | 240 | | | ● | ● | ● | ● |
| A-max 32 | 110/112 | | | | | 72.7 | 72.7 | 72.7 | 72.7 |
| A-max 32 | 110/112 | GP 32, 0.75 - 6.0 Nm | 231/233 | | | ● | ● | ● | ● |
| A-max 32 | 110/112 | GS 38, 0.1 - 0.6 Nm | 236 | | | ● | ● | ● | ● |
| A-max 32 | 110/112 | GP 32 S | 249-251 | | | ● | ● | ● | ● |
| EC-max 40, 70 W | 168 | | | | | 73.9 | 73.9 | 73.9 | 73.9 |
| EC-max 40, 70 W | 168 | GP 42, 3 - 15 Nm | 238 | | | ● | ● | ● | ● |
| EC-max 40, 120 W | 169 | | | | | 103.9 | 103.9 | 103.9 | 103.9 |
| EC-max 40, 120 W | 169 | GP 52, 4 - 30 Nm | 241 | | | ● | ● | ● | ● |
| EC-i 40, 50 W | 190 | | | | | 42.0 | 42.0 | 42.0 | 42.0 |
| EC-i 40, 50 W | 190 | GP 32, 1 - 6 Nm | 233 | | | ● | ● | ● | ● |
| EC-i 40, 50 W | 190 | GP 32 S | 249-251 | | | ● | ● | ● | ● |
| EC-i 40, 70 W | 191 | | | | | 52.0 | 52.0 | 52.0 | 52.0 |
| EC-i 40, 70 W | 191 | GP 32, 1 - 6 Nm | 233 | | | ● | ● | ● | ● |
| EC-i 40, 70 W | 191 | GP 32 S | 249-251 | | | ● | ● | ● | ● |

Technical Data

| | |
|---------------------------------|-----------------------------|
| Supply voltage V_{cc} | 5 V ± 5% |
| Output signal | TTL compatible |
| Phase shift Φ | $90^\circ e \pm 45^\circ e$ |
| Index pulse width | $90^\circ e \pm 45^\circ e$ |
| Operating temperature range | -25 ... +85°C |
| Moment of inertia of code wheel | $\leq 1.7 \text{ gcm}^2$ |
| Output current per channel | max. 5 mA |

The index signal I is synchronised with channel A or B.

Pin Allocation



Connection example

