# α REV

## Description

- High resolution
- 1000 to 36000 pulses/revolution
- Different mechanical versions available
- Metal case
- Glass disc
- Strong, accurate, reliable

## Mechanical versions

| Series REV520: | Series REV510 | Series REV540 |
|---|---|---|
| Ø 58 mm round flange | Ø 58 mm round flange | Ø 58 mm round flange |
| Servo coupling | Servo coupling | Servo coupling |
| Ø 50 mm centering mask | Ø 31.75 mm centering mask | Ø 36 mm centering mask |
| Shaft Ø 6, 8, 9.52 or 10 mm | Shaft Ø 6, 8, 9.52 or 10 mm | 3 M4 holes 120° on Ø 48 mm |
| **Series REV530** | **Series REV620:** | |
| Flange type RE0444 | 63.5x63.5 square flange | |
| Shaft Ø 11 mm | Ø 31.75 mm centering mask Shaft Ø | |
| Aluminium case | 6, 8, 9,52 or 10 mm | |

## Mechanical & Environmental Specifications

| TYPE | REV520/REV510/REV540 | REV620 | REV530 |
|---|---|---|---|
| Weight | | 500 g ca. | |
| Materials: case<br>shaft | | aluminium<br>stainless steel | |
| Shaft diameter | | 6, 8, 9.52 or 10 mm | 11 mm |
| Revolutions/minute | | 6000 | |
| Starting torque | | ≤ 0.8 Ncm | |
| Inertia | | ≤ 25 g cm$^2$ | |
| Max. load | | 80 N axial / 1000 N radial | |
| Shock resistance (11 ms) | | 50 G | |
| Vibrations resistance (10÷2000 Hz) | | 100 m/sec$^2$ | |
| Protection degree | | IP64, optional IP65 (version K) | |
| Operating temperature | | -30 ÷ +70°C | |
| Stocking temperature | | -30 ÷ +85°C | |

## Electrical & Operating Specifications

| | |
|---|---|
| Pulse code | Incremental |
| Pulses/revolution number | 1000 to 36000 |
| Zero pulse | one pulse each revolution |
| Output code | Two square waves 90° ±15° out of phase – Zero pulse width: 90°±15° |
| Electronic Output | push-pull, 5Vdc or 8/24Vdc line driver<br>signals protected against short circuits |
| Supply voltage | 5Vdc or 8/24Vdc - protection against polarity reversa |
| Power consumption | 50/70 mA max |
| Max frequency | 200 KHz |
| Connections outlet | Axial or radial connector equipped with flying part<br>Axial or radial cable - length 3 m (1 m for line driver output) |

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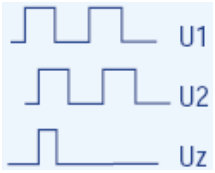
## Electronics

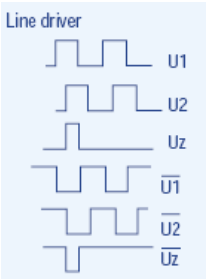
Push pull




Supply voltage
8 ÷ 24 Vdc
5 Vdc ±5%

Signal 2 lags signal 1 with anticlockwise rotation (shaft sight)

Line driver

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Signal 2 lags signal 1 with anticlockwise rotation (shaft sight)

## Connections

| SIGNALS | Push Pull 7-Pin Connector SCHEME 1 | Push Pull 7-Pin Connector SCHEME 2 | Cable Colours | Line Driver 7-Pin Connector SCHEME 3 without 0 pulse | 10-Pin Connector SCHEME 4 with 0 pulse | Cable Colours |
|---|---|---|---|---|---|---|
| Out 1 | A | C | White | A | A | White |
| Out 2 | B | E | Green | B | B | Green |
| Out Z | C | D | Brown | | C | Grey |
| + Vdc | D | F | Red | D | D | Red |
| 0V | F | A | Blue | | E | Red |
| Non connected | E | B | | F | F | Blue |
| Non connected | G | G | | C | G | Brown |
| Earth | | | Shield | E | H | Yellow |
| | | | | | I | Pink |
| | | | | G | J | |
| | | | | | | Shield |

## Ordering information

REV520 | C | 1000 | 8/24 | R | 8 | PP

TYPE
REV520 – REV540 – REV510 – REV530 Round flange
REV620 Square flange

MECHANICAL PECULIARITIES (Optional field)
- = Standard version
C = Cable outlet
K = Sealing O-ring

PULSES/REVOLUTION
10000 - 36000

SUPPLY VOLTAGE
8/24 Vdc
5 Vdc

CONNECTIONS OUTLET
A axial /R radial
7-pin connector /cable

SHAFT DIAMETER
Shaft 6 – 8 – 9.52 – 10 mm -11 mm (REV530)

OUTPUT SIGNALS
PP push pull
LD 8/24Vdc line driver
LD5 5Vdc line driver

Valriations admitted without notice

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