



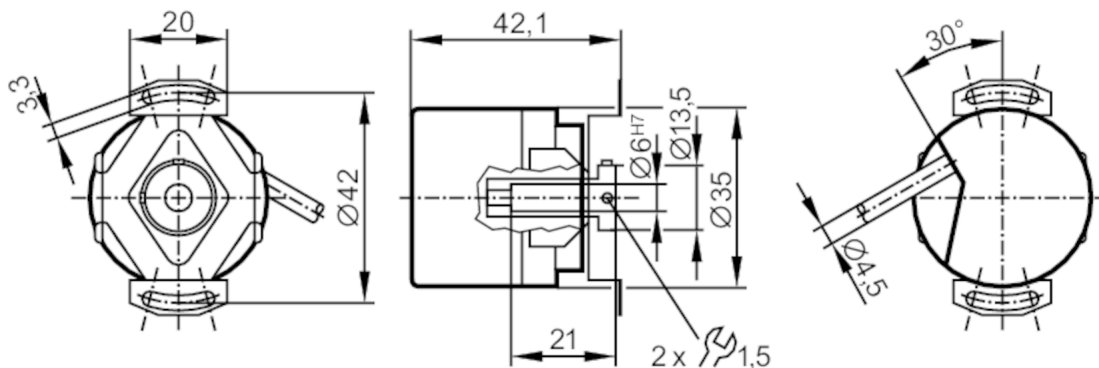
## Incremental encoder with hollow shaft

RA-0200-I24/N2

Article no longer available - archive entry

Alternative articles: RA3101 + EVC544

When selecting an alternative article and accessories please note that technical data may differ!



### Product characteristics

|                     |                               |
|---------------------|-------------------------------|
| Resolution          | 200 resolution                |
| Shaft design        | hollow shaft open to one side |
| Shaft diameter [mm] | 6                             |

### Application

|                    |             |
|--------------------|-------------|
| Function principle | incremental |
|--------------------|-------------|

### Electrical data

|                          |            |
|--------------------------|------------|
| Operating voltage [V]    | 10...30 DC |
| Current consumption [mA] | 150        |

### Outputs

|                                   |        |
|-----------------------------------|--------|
| Electrical design                 | HTL    |
| Max. current load per output [mA] | 50     |
| Switching frequency [kHz]         | 160    |
| Type of short-circuit protection  | < 60 s |
| Phase difference A und B [°]      | 90     |

### Measuring/setting range

|            |                |
|------------|----------------|
| Resolution | 200 resolution |
|------------|----------------|

### Operating conditions

|                                |                     |
|--------------------------------|---------------------|
| Ambient temperature [°C]       | -30...70            |
| Max. relative air humidity [%] | 75; (briefly: 95 %) |
| Protection                     | IP 64               |

### Tests / approvals

|                      |                     |
|----------------------|---------------------|
| Shock resistance     | 100 g (6 ms)        |
| Vibration resistance | 10 g (55...2000 Hz) |

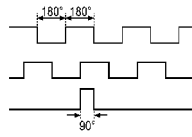


## Incremental encoder with hollow shaft

RA-0200-I24/N2

| Mechanical data               |         |                               |
|-------------------------------|---------|-------------------------------|
| Weight                        | [g]     | 310                           |
| Dimensions                    | [mm]    | Ø 35 / L = 42.1               |
| Material                      |         | aluminum                      |
| Max. revolution, mechanical   | [U/min] | 10000                         |
| Max. starting torque          | [Nm]    | 2.5                           |
| Reference temperature         | [°C]    | 20                            |
| Shaft design                  |         | hollow shaft open to one side |
| Shaft diameter                | [mm]    | 6                             |
| Shaft fit                     |         | H7                            |
| Shaft material                |         | steel (1.4104)                |
| Installation depth/shaft      | [mm]    | 6...21                        |
| Max. axial shaft misalignment | [mm]    | 0,5                           |

| Electrical connection                             |                |  |
|---|----------------|--|
| Cable: 2 m, PUR; radial, can also be used axially |                |  |
| brown   | A              |  |
| green   | 0 V A          |  |
| grey  | B              |  |
| pink  | 0 V B          |  |
| red   | 0 index        |  |
| black   | 0 V 0 index    |  |
| brown/green                                       | L+ (Up)        |  |
| white/green                                       | L- 0V (Un)     |  |
| lilac   | error inverted |  |
| screen  | housing        |  |

| Diagrams and graphs |  |
|---------------------|--|
| Pulse diagram       |  <p>Direction of rotation clockwise (looking at the shaft)</p> |