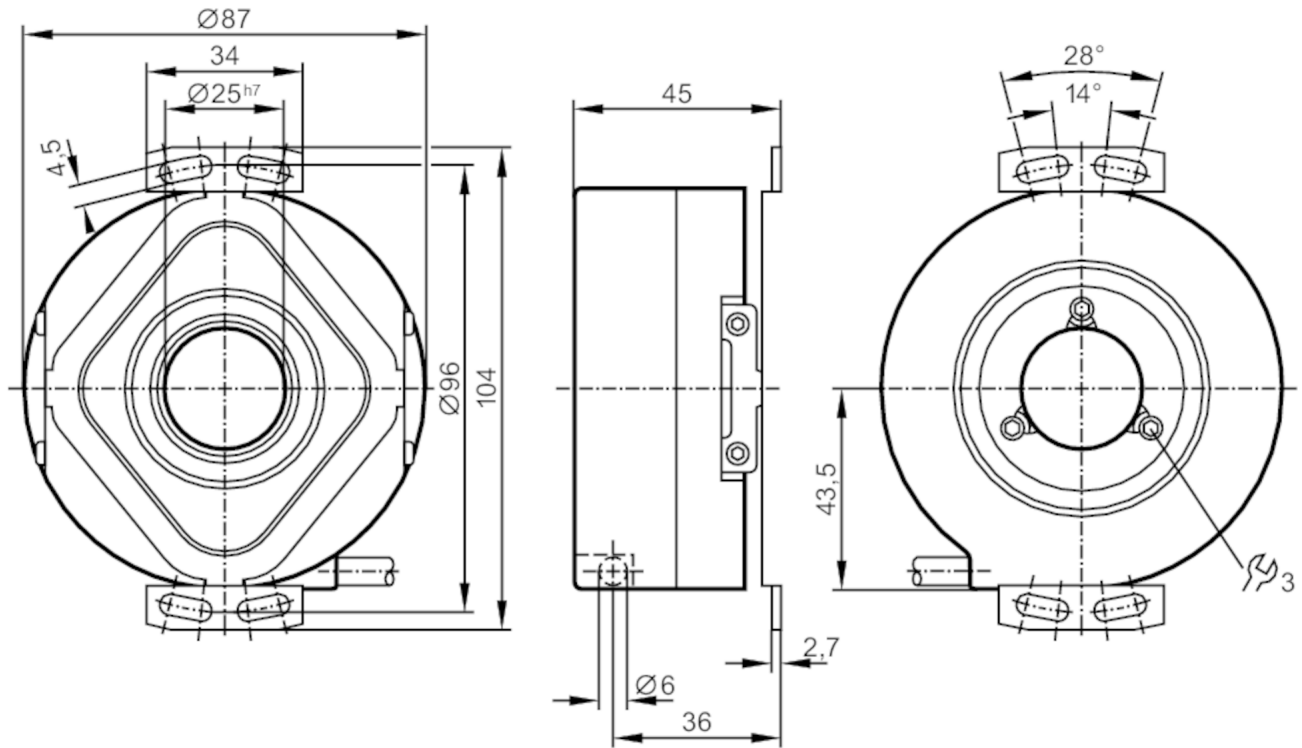




### Absolute singleturn encoder with solid shaft

RN-8192-S24/N59

Article no longer available - archive entry



## Product characteristics

|                         |                                     |
|-------------------------|-------------------------------------|
| Resolution              | 8192 resolution; 8192 steps; 13 bit |
| Communication interface | SSI data interface                  |
| Shaft design            | continuous hollow shaft             |
| Shaft diameter [mm]     | 25                                  |

## Electrical data

|                            |         |            |
|----------------------------|---------|------------|
| Operating voltage          | [V]     | 10...30 DC |
| Current consumption        | [mA]    | 180        |
| Max. revolution electrical | [U/min] | 6000       |

## Outputs

|             |                                                                                                                                                                                                                                                                                                     |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Code        | Gray code; (increasing code values when turned clockwise (seen on the shaft))                                                                                                                                                                                                                       |
| Code signal | data input; TTL-compatible signals; clock and clock (inv.) from drivers to RS 485; data output; synchronous serial; TTL-compatible signals, data, and data (inv.); incremental signals; 2 sinusoidal incremental signals (A and B) ; phase shifted by 90°; 1 Vss 2048 signal periods per revolution |

### Measuring/setting range

|            |                                     |
|------------|-------------------------------------|
| Resolution | 8192 resolution; 8192 steps; 13 bit |
|------------|-------------------------------------|

## Interfaces

|                         |                    |
|-------------------------|--------------------|
| Communication interface | SSI data interface |
|-------------------------|--------------------|



## Absolute singleturn encoder with solid shaft

RN-8192-S24/N59

| Operating conditions                                 |                                                   |                         |
|------------------------------------------------------|---------------------------------------------------|-------------------------|
| Ambient temperature                                  | [°C]                                              | -20...85                |
| Storage temperature                                  | [°C]                                              | -30...100               |
| Protection                                           |                                                   | IP 64                   |
| Tests / approvals                                    |                                                   |                         |
| Shock resistance                                     |                                                   | 100 g (6 ms)            |
| Vibration resistance                                 |                                                   | 10 g (55...2000 Hz)     |
| Mechanical data                                      |                                                   |                         |
| Dimensions                                           | [mm]                                              | Ø 87 / L = 45           |
| Materials                                            |                                                   | aluminium               |
| Max. starting torque                                 | [Nm]                                              | 15                      |
| Reference temperature torque                         | [°C]                                              | 20                      |
| Shaft design                                         |                                                   | continuous hollow shaft |
| Shaft diameter                                       | [mm]                                              | 25                      |
| Shaft material                                       |                                                   | steel (1.4104)          |
| Max. shaft load axial (at the shaft end)             | [N]                                               | 10                      |
| Max. shaft load radial (at the shaft end)            | [N]                                               | 20                      |
| Installation depth of shaft                          | [mm]                                              | 46                      |
| Remarks                                              |                                                   |                         |
| Remarks                                              | Wires/pins not connected (n.c.) must not be used. |                         |
| Electrical connection                                |                                                   |                         |
| Cable: 5 m, PUR; Maximum cable length: 100 m; radial |                                                   |                         |
| black                                                | n.c.                                              |                         |
| red                                                  | n.c.                                              |                         |
| green                                                | n.c.                                              |                         |
| brown                                                | n.c.                                              |                         |
| brown/green                                          | 10...30V (Up)                                     |                         |
| lilac                                                | clock                                             |                         |
| yellow                                               | clock inverted                                    |                         |
| screen                                               | housing                                           |                         |
| white/green                                          | 0V (Un)                                           |                         |
| blue / black                                         | B+                                                |                         |
| red/black                                            | B-                                                |                         |
| grey                                                 | data                                              |                         |
| green / black                                        | A+                                                |                         |
| yellow / black                                       | A-                                                |                         |
| pink                                                 | data inverted                                     |                         |
| Diagrams and graphs                                  |                                                   |                         |
| Pulse diagram                                        | <div></div> <div>clock</div> <div>data</div>      |                         |