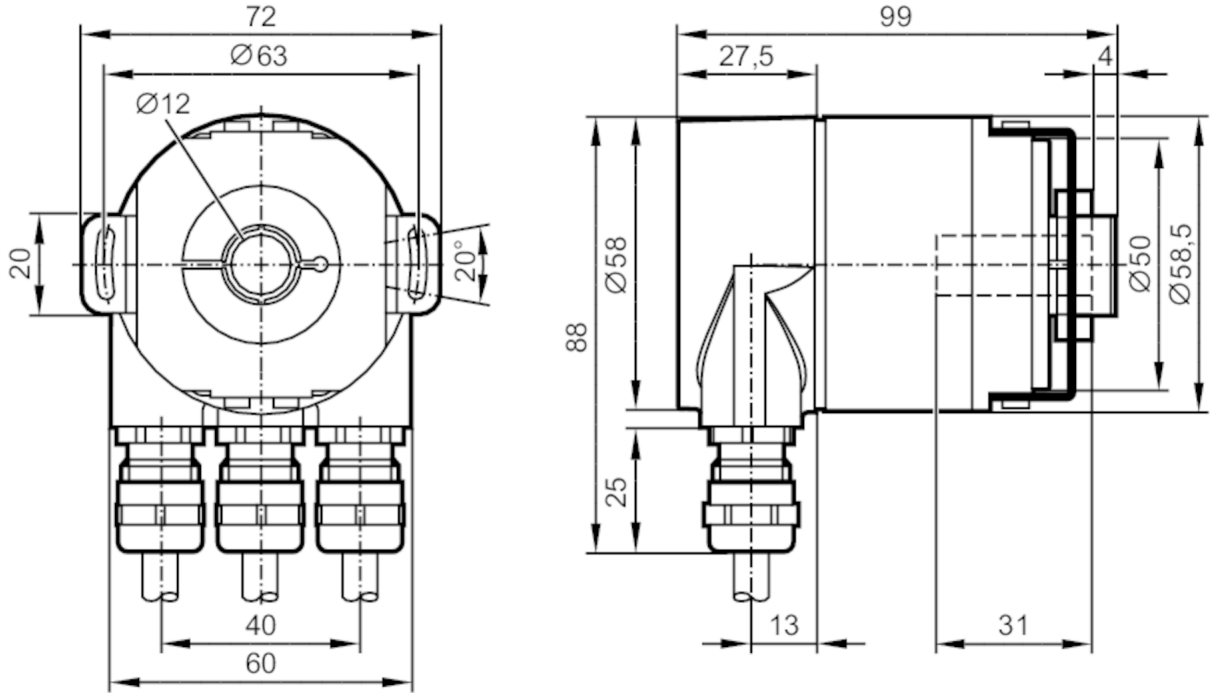


# RM3008



## Absolute multiturn encoder with hollow shaft

RM-0025-E24/E-U



## Product characteristics

|                         |                                      |
|-------------------------|--------------------------------------|
| Resolution              | 8192 steps; 4096 revolutions; 25 bit |
| Communication interface | PROFIBUS DP                          |
| Shaft design            | hollow shaft open to one side        |
| Shaft diameter [mm]     | 12                                   |

## Application

|                    |           |
|--------------------|-----------|
| Function principle | absolute  |
| Revolution type    | multiturn |

## Electrical data

|                             |      |               |
|-----------------------------|------|---------------|
| Operating voltage           | [V]  | 10...30 DC    |
| Current consumption         | [mA] | 100; ((24 V)) |
| Reverse polarity protection |      | yes           |

## Outputs

| Code | binary |
|------|--------|
|------|--------|

### Measuring/setting range

|            |                                      |
|------------|--------------------------------------|
| Resolution | 8192 steps; 4096 revolutions; 25 bit |
|------------|--------------------------------------|

## Software / programming

|                           |                                                                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Parameter setting options | counting direction of the code values; Resolution; zero point; limit switches HI and LO; motion indicator; separation multiturn/singleturn |
| Diagnostic functions      | alarms; warnings; status; serial number of the encoder                                                                                     |
| Addressing                | address selector switch; 0...126                                                                                                           |



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| Interfaces                                |         |                                                     |
|-------------------------------------------|---------|-----------------------------------------------------|
| Communication interface                   |         | PROFIBUS DP                                         |
| PROFIBUS DP                               |         |                                                     |
| Transmission standard                     |         | DPV2                                                |
| Operating conditions                      |         |                                                     |
| Ambient temperature                       | [°C]    | -40...85                                            |
| Max. relative air humidity                | [%]     | 98                                                  |
| Protection                                |         | IP 67; (on the housing: IP 67; on the shaft: IP 67) |
| Tests / approvals                         |         |                                                     |
| Shock resistance                          |         | 100 g (6 ms)                                        |
| Vibration resistance                      |         | 10 g (10...2000 Hz)                                 |
| MTTF                                      | [years] | 13.5                                                |
| Mechanical data                           |         |                                                     |
| Weight                                    | [g]     | 648                                                 |
| Dimensions                                | [mm]    | Ø 58.5 / L = 99                                     |
| Materials                                 |         | aluminium; clamping ring: brass                     |
| Max. revolution, mechanical               | [U/min] | 12000                                               |
| Shaft design                              |         | hollow shaft open to one side                       |
| Shaft diameter                            | [mm]    | 12                                                  |
| Shaft material                            |         | steel (1.4104)                                      |
| Max. shaft load axial (at the shaft end)  | [N]     | 40                                                  |
| Max. shaft load radial (at the shaft end) | [N]     | 110                                                 |
| Fixing flange                             |         | Stator coupling                                     |
| Electrical connection                     |         |                                                     |
| terminal strip in the terminal chamber:   |         |                                                     |