

RM-8192-E24/ U

Alternative articles: RM3008

Technical drawing of a 3D-printed part, showing two views: a top view (left) and a side view (right).

Top View Dimensions:

- Overall width: 68
- Inner width: $\varnothing 63$
- Outer diameter of the central circular feature: 88
- Radius of the central circular feature: 25°
- Radius of the outer circular feature: 3,2
- Angle of the outer circular feature: 20°
- Distance from the center to the outer edge: 20

Side View Dimensions:

- Overall height: 80
- Distance from the top to the center of the circular feature: 20
- Inner diameter of the circular feature: $\varnothing 12$
- Outer diameter of the circular feature: $\varnothing 58$
- Distance from the bottom to the center of the circular feature: 18



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

Function principle	absolute
Revolution type	multiturn

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 150
Max. revolution electrical	[U/min]	6000

Code	Dual code
------	-----------

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

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



Absolute multiturn encoder with hollow shaft

RM-8192-E24/ U

Addressing	address selector switch; 0...126	
Interfaces		
Communication interface	PROFIBUS DP	
PROFIBUS DP		
Transmission standard	DPV0 Class 2 / DPV2 Class 4 (EN50170)	
Transmission rate	...12 Mbit/s	
Operating conditions		
Ambient temperature	[°C]	-40...70
Protection	IP 64; (on the housing: IP 67; on the shaft: IP 64)	
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)
Mechanical data		
Weight	[g]	574.2
Materials	aluminium	
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
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]	10
Max. shaft load radial (at the shaft end)	[N]	20
Max. axial shaft misalignment	[mm]	1
Fixing flange	Stator coupling	
Electrical connection		
terminal strip in the terminal chamber: ; Maximum cable length: 100 m; 400 m (1.5 Mb/s)		