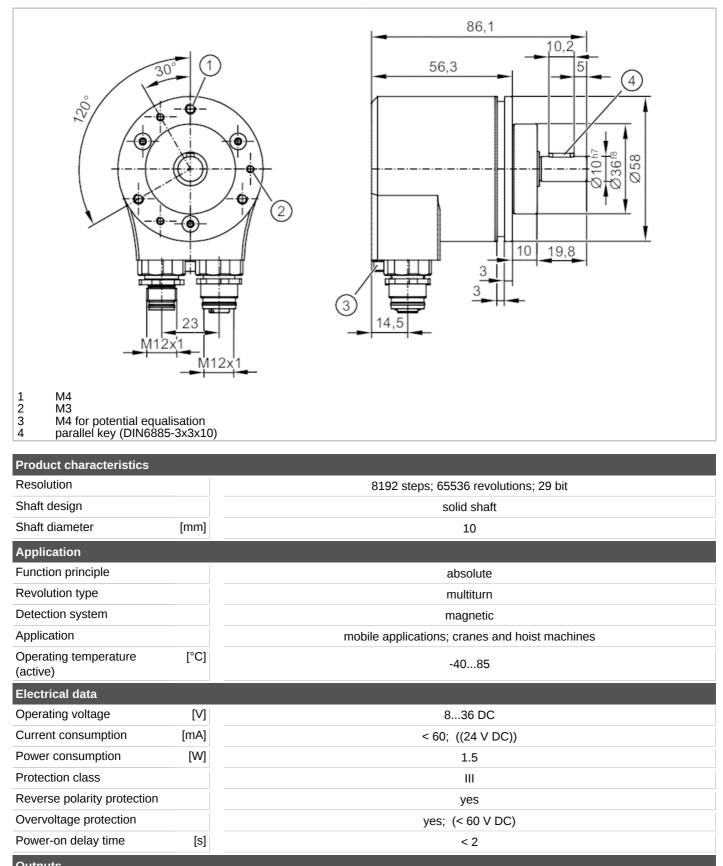
Absolute multiturn encoder with solid shaft



RMV10SRU51213bCANS



Outputs	
Contact rating	max. 1,5 A (24 V DC)
Code	binary

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Measuring/setting range Resolution		8192 steps; 65536 revolutions; 29 bit		
		0192 3(ep.		
Accuracy / deviations	F01	<i>.</i>		
Accuracy	[°]	non-safety	0.2	
Depentability		safety	0.5	
Repeatability		±	0,1 °; (magnetic)	
Response times				
Response time to safety request	[ms]		7	
Software / programming				
Parameter setting options		•••	ode ID; limit switch; gear function; monitoring speed parameters; integration time; ifm mode	
Interfaces				
Number of CAN interfaces			2	
Transmission rate		2	0 kBit/s 1 MBit/s	
Terminating resistor			xtern M12 (z.B. E11590))	
CAN		yes, (L/		
Protocol		·	en Safety; CAN Spezifikation 2.0 A	
Factory settings		Ва	aud rate: 250 kBit/s	
Alereien			node ID: 32	
Version); CIA 301 V4.2.0; CIA DSP-305 50325-4; EN 50325-5; ISO 11898	
Operating conditions			00020 4, EN 00020 0, 100 11000	
Operating conditions Ambient temperature	[°C]		40.05	
-	[°C]		-4085	
Storage temperature	[°C]		-4090	
Note on storage temperature	FO / 1		dry	
Max. relative air humidity	[%]	98		
Max. height above sea level	[m]		5000	
Protection		IP 67; IP 69K; (with ifm socket duly screwed on)		
Tests / approvals				
EMC		IEC 61000-4-2 ESD 6	6 kV CD / 15 kV AD	
		IEC 61000-4-3 HF radiated	20 V/m (271000MHz)	
			10 V/m (10002000MHz)	
			3 V/m (20006000MHz)	
		IEC 61000-4-4 Burst	4 kV	
		IEC 61000-4-5 Surge	2 kV (screen)	
		IEC 61000-4-6 HF	20 V	
		IEC 55011	class B	
		IEC 61000-4-8 magnetic fields	30 A/m (50 Hz) / 1000 A/m (0 Hz) failure criterion A	
Shock resistance		IEC 60068-2-27	100 g 6 ms half-sine; 100 shocks each in every direction of the 3 coordinate axes	
Vibration resistance		IEC 60068-2-64	15 g Sinus / 502000 Hz	
		ISO 19014-3	5.7 g RMS	
Salt spray test		IEC 60068-2-52	severity level 5	
Standard		compliant with ECE R 10 Rev.6		

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Safety classification			
Complies with the		ISO 13849-1 category 3, PL d	
requirements		IEC 61508 SIL 2	
		IEC 61800-5-2	
		IEC 61800-5-3	
Mission time TM	[h]	175800	
Mission time TM (additional indication)		20 years	
PFH	[1/h]	2,00E-8	
Mechanical data			
Weight	[g]	0.001	
Dimensions	[mm]	Ø 58 / L = 86.1	
Materials		sealings: NBR/HNBR; display: polycarbonate; connections: diecast zinc nickel-plated (axial)/(radial)	
Max. revolution, mechanical [U/min]	6000	
Max. starting torque	[Nm]	5	
Reference temperature torque	[°C]	20	
Shaft design		solid shaft	
Shaft diameter	[mm]	10	
Shaft material		stainless steel (303/1.4305)	
Max. shaft load axial (at the shaft end)	[N]	80	
Max. shaft load radial (at the shaft end)	[N]	100	
Fixing flange		clamping flange; Ø 58 mm	
Remarks			
Remarks		material for secure mounting not supplied; fixing must be done by the user	
		meets the EMC requirements for use in agricultural and forestry machinery, earthworks and construction machines and industrial trucks	
		additional information on max. shaft load: measured 10 mm from the flange	
		can be used in applications up to Ag PL d in accordance with ISO 25119, up to MPL d in accordance with ISO 19014-3	
Pack quantity		1 pcs.	

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Electrical connection - CAN-in

Connector: 1 x M12-A; coding: A; (open M12 connections must be covered with appropriate protective caps)



	PE via housing screw
5	CAN_L
4	CAN_H
3	GND
2	VBB
1	CAN Screen

Electrical connection - CAN-out

Connector: 1 x M12-A; coding: A; (open M12 connections must be covered with appropriate protective caps)



1	CAN Screen	
2	VBB	
3	GND	
4	CAN_H	
5	CAN_L	
	PE via housing screw	