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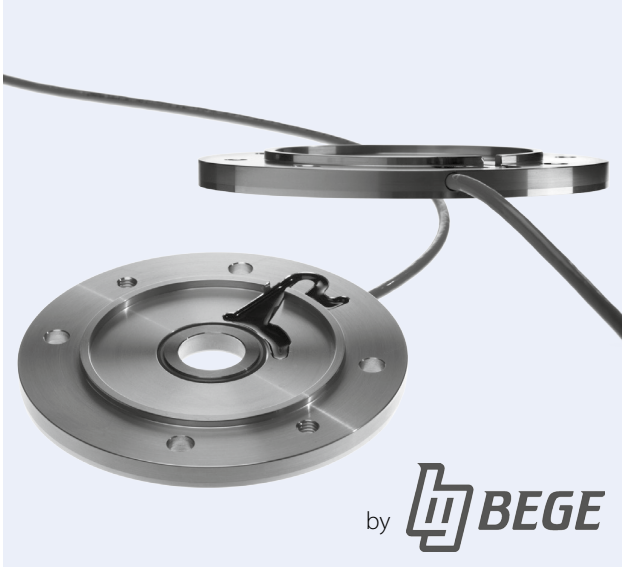


Series MIG *Nova+*

- Compact design; 7 - 15 mm thick
- Standard flanges sizes from 80 to 450 mm
- Compatible with any IEC standard motor, size 56 to 225
- Space-saving and protective assembly between motor and gearbox; protection class IP67
- Also applicable to existing drives
- Epoxy resin sealed encoder electronics
- Unbreakable vulcanized magnet ring
- 1 - 2048 impulses (A 90°B) per revolution
- Contactless signal measurement
- Output signal A 90 ° B and inverted
- Up to 6000 rpm.
- Line driver output, 10 - 24 VDC and TTL 5 VDC
- Flange material in aluminum and available in stainless steel
- Special construction and material on request
- Standard with 2 m, screened cable. Different lengths and plug connection on request.

Electrical specifications

Connecting voltage U_b:	5 to 24 VDC
Max. impulse frequency:	≤ 100 kHz
Output signals:	Square wave-impulses, A 90° B and A 90° B inverted
Impulses:	1 ... 512, 1.024, 2.048
Signal level:	$U_{high} \geq U_b$ -0,7 V at $L_{Last} \leq 10$ mA $U_{low} \leq$ -0,7 V at $I_{last} \leq 10$ mA
Output capacities:	≤ 30 mA at U_b = 10 V DC or ≤ 20 mA at U_b = 24 V DC
Output switching:	Line-Driver (Push-Pull)
External evaluation:	NPN, PNP, RS422
Reversepolarity protected:	Yes
Short circuit protection at the output:	Yes
Motor shaft tolerance:	0,2 mm axial - 0,05 mm radial

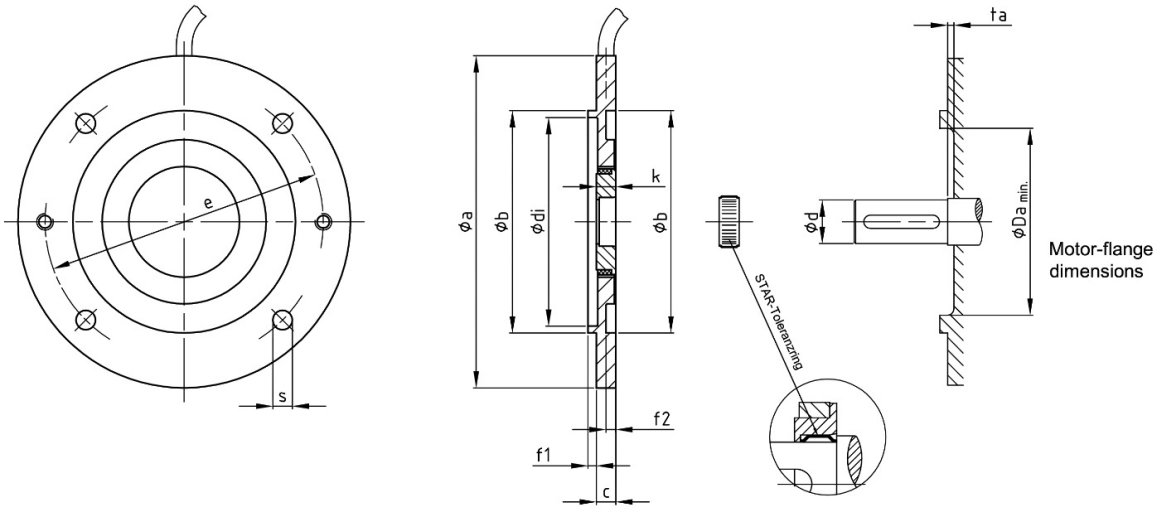
Mechanical specifications

Max. speed:	6.000 min^{-1} (1.024 impulses) 3.000 min^{-1} (2.048 impulses)
Temperature range:	-30° C to +80° C
Flange/hub material:	Aluminium, stainless steel (additional price) / Magnet vulcanized
Connection cable:	PUR-sheath 6 x 0,14 screened (A+B, A+B inv.) Standard 2 m or on request
Cable length:	Depending on the impulses and RPM max. 100 m at 5 V DC max. 20 m at 24 V DC max. 50 m at 24 V DC and impulse frequency max. 50 kHz
Protection type:	Standard IP55, dpending on the sealant used between motor and machine flange IP67. Pleas take note in the operating manual.

Series MIG *Nova+*

Incremental Rotary Encoder

Mechanical Dimensions



MIG *Nova*+ Dimensions									Standard motor sizes (BG) according to IEC				
Øa	**Øb**	**c**	**Ødi**	**Øe**	**f1**	**f2**	**k**	**s**	**BG**	**Fl.**	**Ød x l**	**ta**	**ØDa**
80	50	7	44	65	2,5	3	7	5,8	56	FT 65	ø 9 x 20	2	43
90	60	7	54	75	2,5	3	7	5,8	63	FT 75	ø 11 x 23	2	43
105	70	7	64	85	2,5	3	7	7	56	FT 85	ø 9 x 20	2	60
									71	FT 85	ø 14 x 30	2	60
120	80	7	74	100	3	3,5	7	7	56	FT 100	ø 9 x 20	2	60
									63	FT 100	ø 11 x 23	2	60
									80	FT 100	ø 19 x 40	2	60
140	95	7	85	115	3,5	4	7	9	63	FT 115	ø 11 x 23	2	60
									71	FT 115	ø 14 x 30	2	60
		9	85	115	3,5	4	9	9	90	FT 115	ø 24 x 50	3	60
160	110	7	100	130	3,5	4	7	9	71	FT 130	ø 14 x 30	2	60
									80	FT 130	ø 19 x 40	2	60
		9	100	130	3,5	4	9	9	90	FT 130	ø 24 x 50	3	60
									100	FT 130	ø 28 x 60	3	105
									112	FT 130	ø 28 x 60	3	105
200	130	9	120	165	3,5	4	9	11	80	FT 165	ø 19 x 40	2	60
									90	FT 165	ø 24 x 50	3	60
									100	FT 165	ø 28 x 60	3	60
									112	FT 165	ø 28 x 60	3	105
		12	120	165	3,5	4	12	11	132	FT 165	ø 38 x 80	3	105
250	180	12	170	215	4	5	12	13,5	100	FT 215	ø 28 x 60	3	60
									112	FT 215	ø 28 x 60	3	60
									132	FT 215	ø 38 x 80	3	105
300	230	12	218	265	4	5	12	13,5	132	FT 265	ø 38 x 80	3	105
350	250	12	238	300	5	6	12	17	160	FT 300	ø 42 x 110	3	105
									180	FT 300	ø 48 x 110	3	105
400	300	15	290	350	5	6	15	17,5	200	FT 350	ø 55 x 110	3	105
450	350	15	340	400	5	6	15	17,5	225	FF 400	ø 55 x 110	3	105
											ø 60 x 140		

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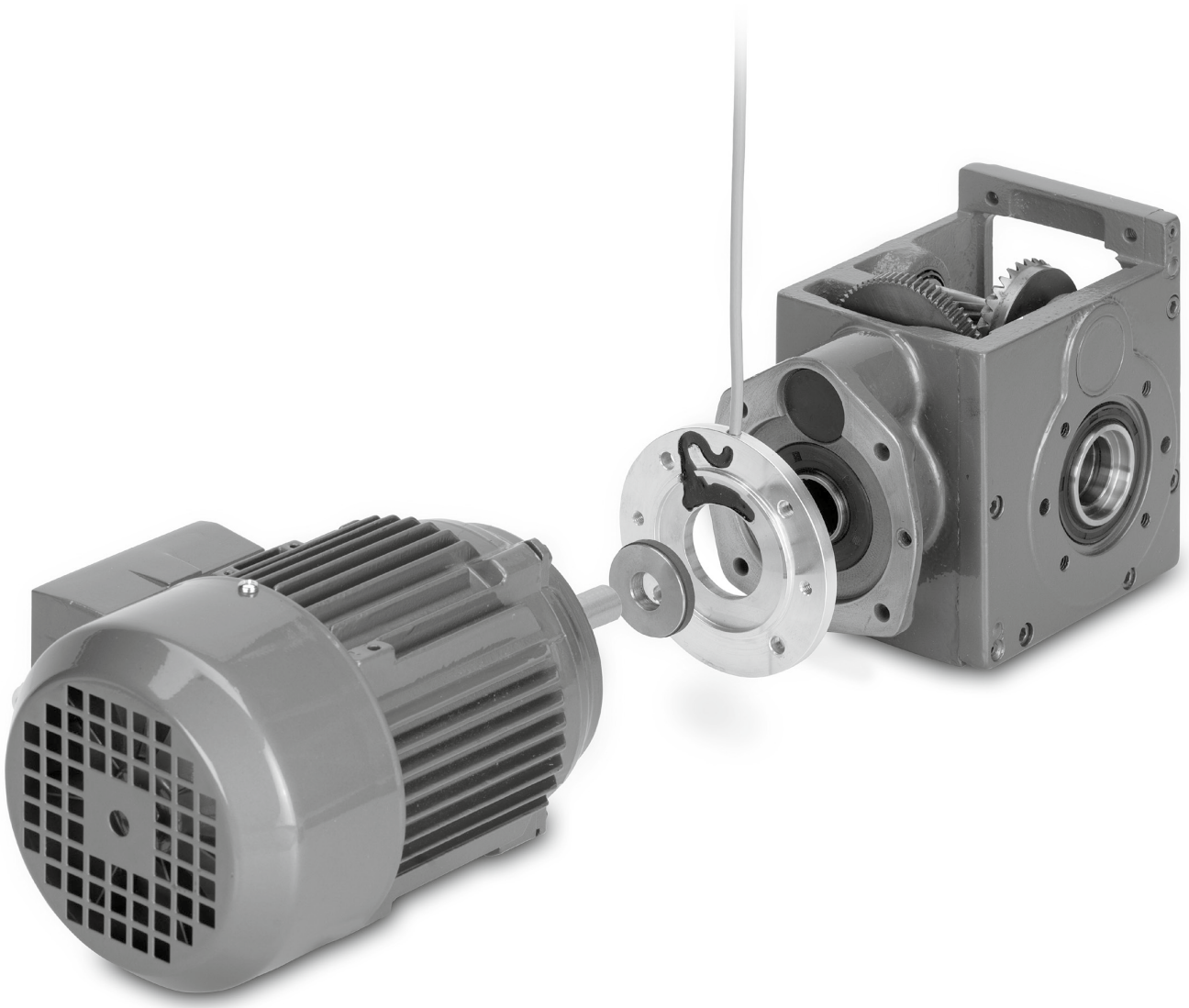
Series MIG Nova+

The very compact **MIG *Nova+*** encoder flange is available with pulses from 1 to 2048 per revolution and has a revolutionary vulcanized magnet ring. The flange has standard dimensions and therefore fits on every IEC motor. With a minimum thickness of 7 mm, your drive is only a fraction longer and the epoxy resin sealed encoder electronics is completely protected from external influences. Extremely suitable for the „wet applications“ such as the food, dairy and fish processing industry.

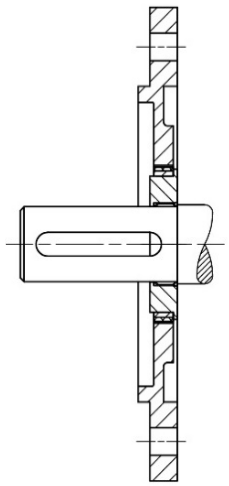


Series MIG *Nova+*

Incremental Rotary Encoder

IEC flange design

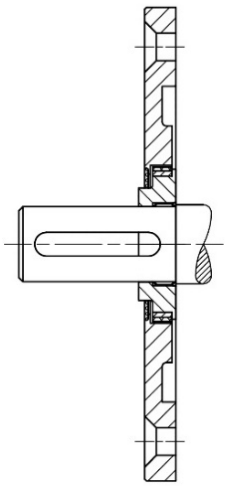
e.g. Flange motor



Motor B5 and B 14

Cover design*

e.g. conventional motor

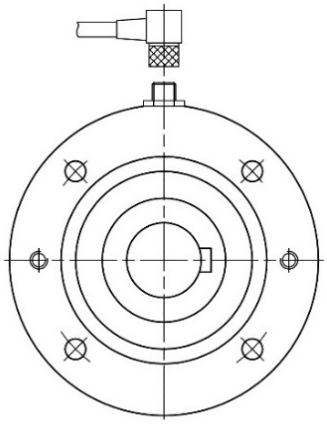


Motor B3/B5 and B3/B4

*Cover width by flange width „C“ on page 35
7 mm = 9,3 mm / 9 mm = 11 mm / 12 mm = 15 mm

Design with plug-in connection 4 pin plug

not fpr TTL design



View of motor shaft
(cable connection left)

Terminals

Terminal	Ub	0 V	A	B	A‘	B‘
Cable	brown	white	yellow	green	pink	gray

Attention: Please isolate not required connection lacings and protect them from short-circuits!