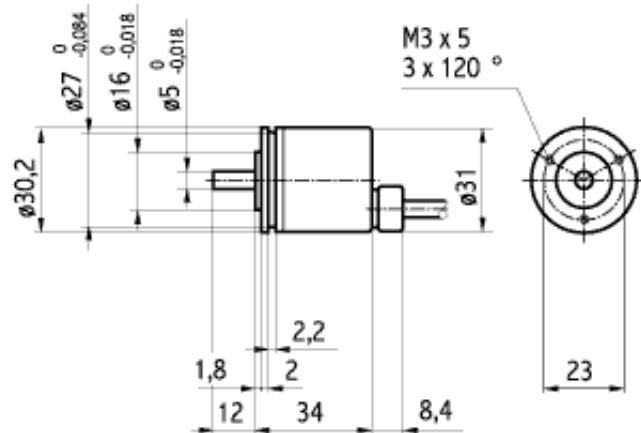


BDK 16.05A360-5-4

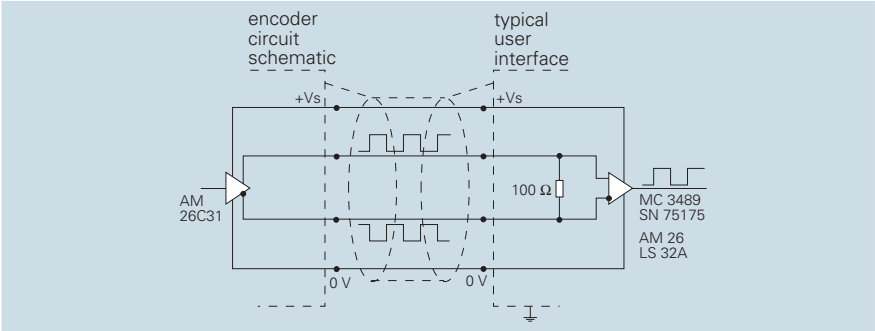
[illegible]

Output circuits

Incremental encoders

Complementary line-driver

05A

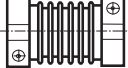
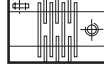


voltage supply	5 VDC $\pm$ 10%
level of signal	$U_{\text{High}} \geq 2,4 \text{ V}$ at $I_{\text{High}} = 20 \text{ mA}$ $U_{\text{Low}} \leq 0,4 \text{ V}$ at $I_{\text{Low}} = 20 \text{ mA}$
supply current	see product page
special features	EIA-standard RS-422
preferred application	when EMI is present and with long cable lengths

Couplings

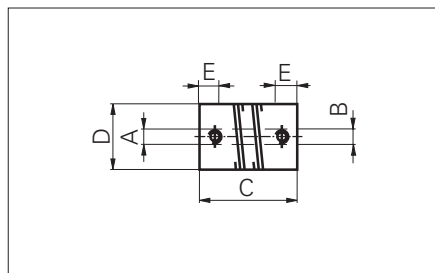
Shaft encoders

Overview couplings

				
	spiral coupling aluminum	bellows coupling alu/stainless steel	slit coupling aluminum	slit coupling polyamid
high torisional stiffness		○	○	
high torque	○	○	○	
low moment of inertia		○		○
virbration absorption				○
electrically insulating				○
clamp fastening		○	○	
stud bolt fastening	○			○

Spiral coupling

aluminum

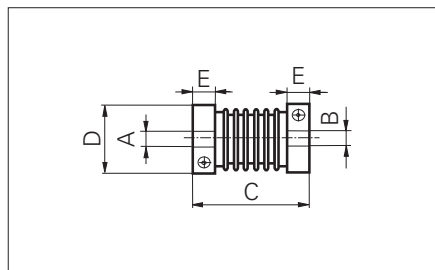


part nr. mm	106009	251401	251402
∅	5...9,5	6...9,5	6...12
A	5	6	5,88
B	6	6	7,5
C	25,4	25,4	38
D	19	19	25,4
E	6,3	6,3	11,6

max. rated torque	(Nm)	1	1	5
axial axis misalignment	(mm)	≤ 0,2	≤ 0,2	≤ 0,3
parallel axis misalignment	(mm)	≤ 0,2	≤ 0,2	≤ 0,3
angular axis misalignment	(°)	≤ 2,5	≤ 2,5	≤ 2,5
torsional stiffness	(Nm/rad)	60	60	250
moment of inertia	(kgm ² *10E-7)	5	5	20

Bellows coupling

aluminum / stainless steel

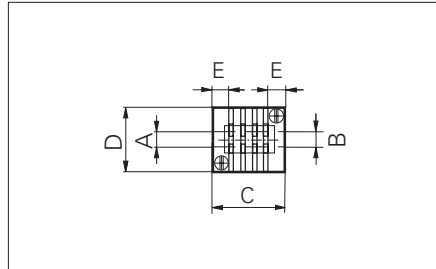


part nr. mm	106008		
∅	6...12		
A	∅ 6		
B	∅ 8		
C	43		
D	∅ 25		
E	13		

max. rated torque	(Nm)	2		
axial axis misalignment	(mm)	≤ 0,2		
parallel axis misalignment	(mm)	≤ 0,2		
angular axis misalignment	(°)	≤ 2		
torsional stiffness	(Nm/rad)	1290		
moment of inertia	(kgm ² *10E-7)	12		

Slit coupling

aluminum

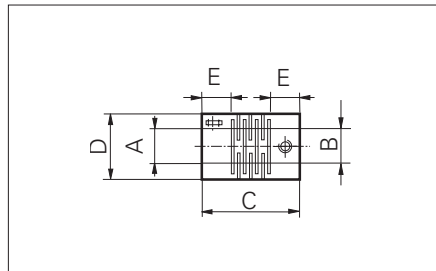


part nr. mm	107671	107670	
Ø	5...6	6...12	
A	6	6	
B	5	6	
C	16,6	28	
D	18	25	
E	6	8	

max. rated torque	(Nm)	1	5	
axial axis misalignment	(mm)	≤ 0,1	≤ 0,2	
parallel axis misalignment	(mm)	≤ 0,1	≤ 0,2	
angular axis misalignment	(°)	≤ 1,5	≤ 2	
torsional stiffness	(Nm/rad)	200	3400	
moment of inertia	(kgm ² *10E-7)	3	15	

Slit coupling

polyamid



part nr. mm	115110	124461	
Ø	6	5	
A	Ø 6	Ø 5	
B	Ø 6	Ø 5	
C	20,2	20,2	
D	Ø 15	Ø 15	
E	6	6	

max. rated torque	(Nm)	0,2	0,2	
axial axis misalignment	(mm)	±0,2	±0,2	
parallel axis misalignment	(mm)	±0,3	±0,3	
angular axis misalignment	(°)	±2,5	±2,5	
torsional stiffness	(Nm/rad)	15	15	
moment of inertia	(kgm ² *10E-7)	0,5	0,5	

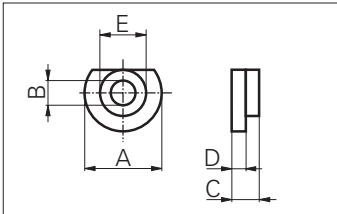
Attention

Couplings for other shaft diameters (A, B) on request

Mounting accessories

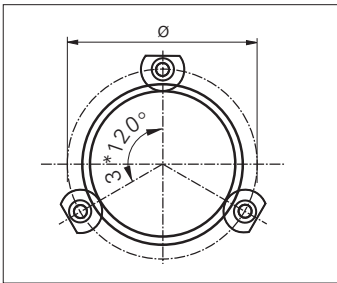
Shaft encoders

Clamp set



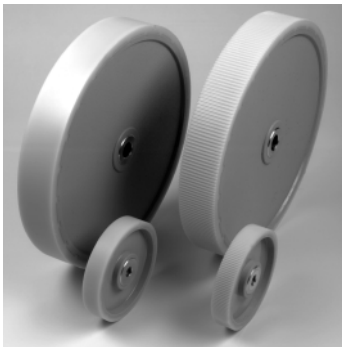
part nr.		106004	252773
dimensions	ø A	10	15
	ø B	3,2	4,2
	C	3,8	5,4
	D	2	2,6
	ø E	6	9,5

Mounting clamps



encoder	part nr.	ø
BDK	106004	37
BAV, BDT, BMA, BMB, BMC, BMD, BME, BMF	252773	68
BDC, BAC	252773	102
BHW, BFW	252773	90

Measuring wheel



dimensions			
meas. wheel circumference		0,2m	0,5m
bore		10 mm	10 mm
measuring width		12 mm	25 mm
material	profile	part nr.	part nr.
aluminum	knurled	117671	117677
plastic	smooth	117673	117679
plastic	corrugated	117675	117681

Adapter



for encoder: BAV, BDT

mounting adapter part nr. 117667

fixing screws
and servo clamps part nr. 117668

