DMG60
for belt conveyor technology

Drum motor for operation on a decentralized Motor Controller for efficient belt conveyor technology



Applications

Drive systems for belt conveyors are specifically designed to meet the requirements of continuous conveying processes and are therefore particularly suitable for this area of application.

They offer high power density, reliable operation and are characterized by strong overload capacity.

They also ensure a robust and long-lasting solution for material flow in applications such as belt drives and cross-belt sorters.

Features & Benefits

- **Integrated rotary encoders** for operation on decentralized Motor Controllers.
- **High overload capability**: Reliable operation even during peak loads and demanding conveying conditions.
- **Optional with integrated holding brake**: Ensures safe positioning and holding of the conveyed goods at a standstill.

Technical data

		DMG60-BC09	DMG60-BC12	DMG60-BC49
Rated voltage	VDC	48	48	48
Rated power (S1)	W	181 *	181 *	181 *
Speed	m/s	0 - 2.1	0 - 1.6	0 - 0.4
Nominal torque (S1)	Nm	2.5	3.4	13.8
Maximum torque	Nm	10.5	14.0	52.0
Rated current	Arms	4.9	4.9	4.9
Maximum current	Arms	18.8	18.8	18.8

* measured as motorized roller - higher, when used in belt conveyor technology

	Configuration
Encoder system	Hall sensor or magnetic encoder
Maximum noise level	< 55 dB(A), application dependent
Length of connecting cable	500 mm
Tube dimensions	Ø 60 x 1.5 mm or Ø 60 x 3.0 mm
Tube material	Galvanized steel
Tube options	convex / belt guide groove / PVC hose
Ambient temperature	0 °C ... 40 °C
Protection class	IP54

Motor cable connections

Pin	Signal	Presentation
1	Motor phase U	 M16 / 3-pin (3x1)/male
2	Motor phase V	
3	Motor phase W	

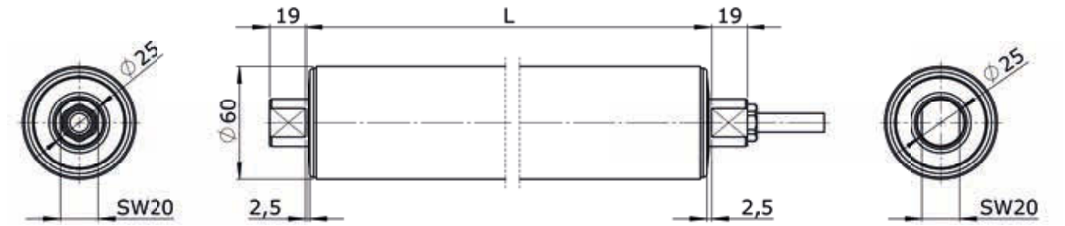
Hall sensor connections

Pin	Signal	Presentation
1	Supply 5 V	 M8 B-coded 5-pin/male
2	GND	
3	Hall 1	
4	Hall 2	
5	Hall 3	

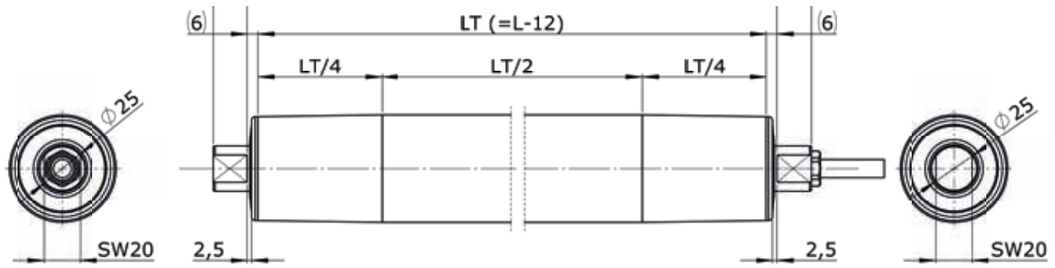
Magnetic encoder connections

Pin	Signal	Presentation
1	GND 5 V	 M16 / 18-pin/male
2	Supply 5 V	
3	I-	
4	I+	
5	B-	
6	B+	
7	A-	
8	A+	
9	PWM-	
10	PWM+	
11	Temp-	
12	Temp+	
13	Brake (GND)	
14	Brake (24 VDC)	
15-18	n.c.	

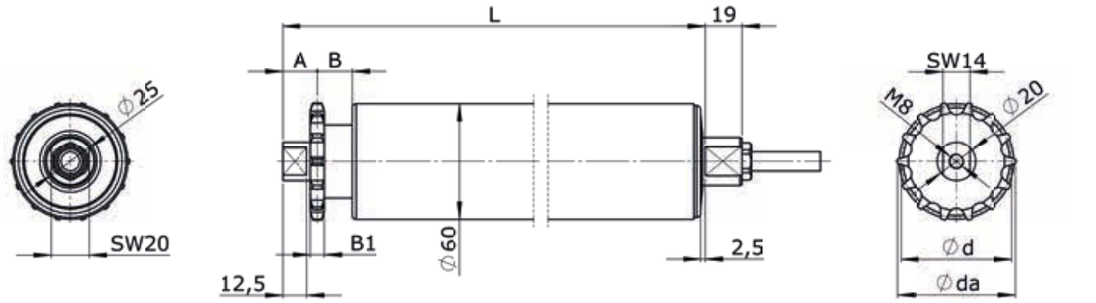
Mechanical execution



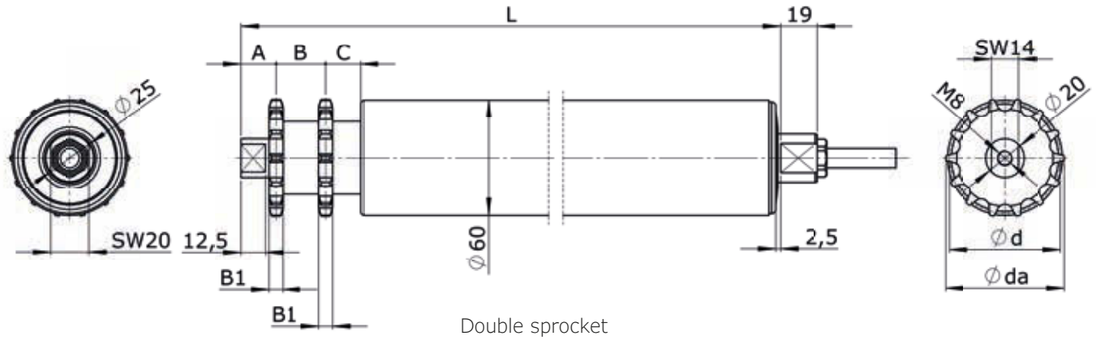
smooth



crowned



Single sprocket



Double sprocket

Variable	Single sprocket [mm]	Double sprocket [mm]
A	18	
B	18	26
C	-	18
B1	7.2	
L	clamping length	
LT	Length of support tube	
Ød	57.87	
Øda	61.8	
Number of teeth	14	