MRG60
for belt conveyor technology

Intelligent motorized roller with integrated control 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.

With a diameter of only 60 mm, the motorized roller is also suitable for use in pallet conveyor technology, especially in cramped conditions and with limited installation space.



Features & Benefits

- **Integrated Motor Controller**: Compact design thanks to directly integrated motor control, reduces cabling effort and simplifies commissioning.
- **High overload capacity**: 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.
- **Communication via I/O or CANopen interface**: Flexible integration into existing control systems and easy integration into different automation concepts.

Technical data

		MRG60-BC09	MRG60-BC12	MRG60-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	ADC	4.9	4.9	4.9
Maximum current	ADC	18.8	18.8	18.8

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

	Configuration
Interfaces	I/O or CAN
Maximum noise level	< 52 dB(A), application dependent
Length of connecting cable	500 mm
Tube dimensions	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

* other versions on request

Connections supply voltage

Pin	Description	Presentation
1	n.c.	 M12 L-coded 5-pin/male
2	Supply GND	
3	n.c.	
4	Supply 48 VDC	

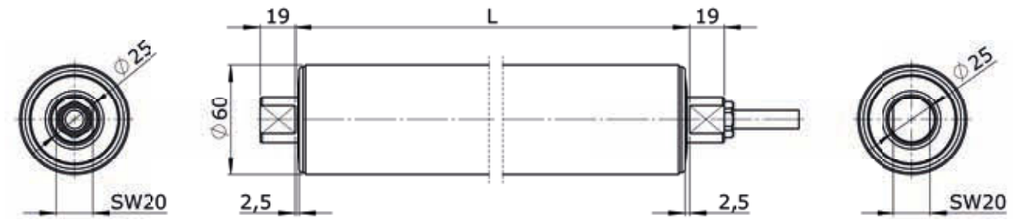
Connections CAN version

Pin	Description	Presentation
1	Supply 24 VDC	 M8 B-coded 5-pin/male
2	CAN high	
3	Supply GND	
4	CAN Low	
5	manufacturer-specific	

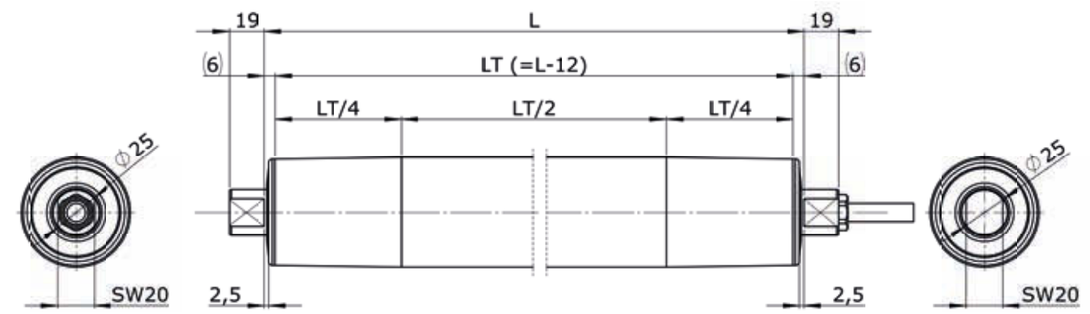
Connections version I/O

Pin	Description	Presentation
1	Supply 24 VDC	 M8 B-coded 5-pin/male
2	Direction of rotation	
3	Supply GND	
4	Error output	
5	speed	

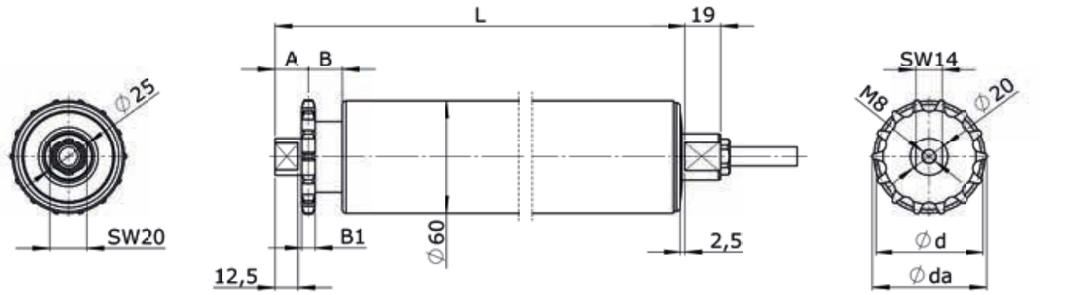
Mechanical versions



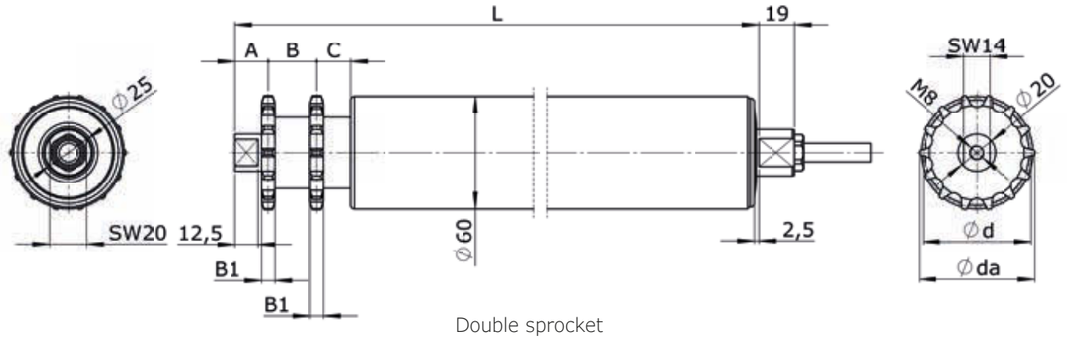
smooth



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	