MRG8x
for pallet conveyor technology

Highly integrated drive solution for reliable heavy-duty transport in pallet conveyor systems

Application / area of application

Powerful motorized roller for pallet conveyor technology, designed for the reliable transport of heavy loads.

It impresses with its robust construction, high power density and stable operation even under demanding operating conditions in heavy-duty transport.

The two-cable solution enables the use of standardized motor modules that are established on the market and thus decentralized drive technology for pallet conveyor systems. This enables pallet transport without accumulation pressure, analogous to container conveyor technology, which means that the pallet throughput can be significantly increased compared to conventional block accumulation.



Features

- **48V technology**: Efficient and safe low-voltage technology for modern conveyor systems.
- **Powerhouse for up to 1500 kg**: Designed for the reliable transport of heavy pallets in conveyor technology.
- **Integrated Motor Controller**: Compact drive solution for easy integration.
- **Up to 1.1 m/s conveying speed**: Powerful drive for dynamic and continuous material flows.

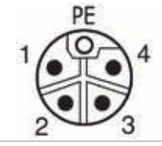
Technical data

Type		MRG80-BD17 / MRG89-BD17	MRG80-BD30 / MRG89-BD30	MRG80-BD42 / MRG89-BD42	MRG80-BD56 / MRG89-BD56
Rated voltage	VDC	48	48	48	48
Rated Power (S3)	W	370	370	370	370
Rated Power (S1)	W	200	200	200	200
Speed	m/s	0 - 1.0 / 0 - 1.1	0 - 0.56 / 0 - 0.62	0 - 0.40 / 0 - 0.45	0 - 0.30 / 0 - 0.33
Nominal torque (S3)	Nm	16.23	28.64	40.10	53.47
Nominal torque (S1)	Nm	8.12	14.32	20.05	26.73
Maximum torque	Nm	27.12	47.86	67.00	70.00
Rated current	ADC	5	5	5	5
Maximum current	ADC	21.3	21.3	21.3	16.7

	Configuration
Interfaces	I/O or CAN
Maximum noise level	< 62 dB(A), application dependent
Temperature sensor *	PTC
Length of connecting cable	500 mm
Tube dimensions	Ø 80/89 x 3.0 mm
Tube material *	Galvanized steel
Tube options	Stainless steel
Ambient temperature *	0 °C ... 40 °C
Protection class *	IP54

* other versions on request

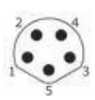
Connections supply voltage

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

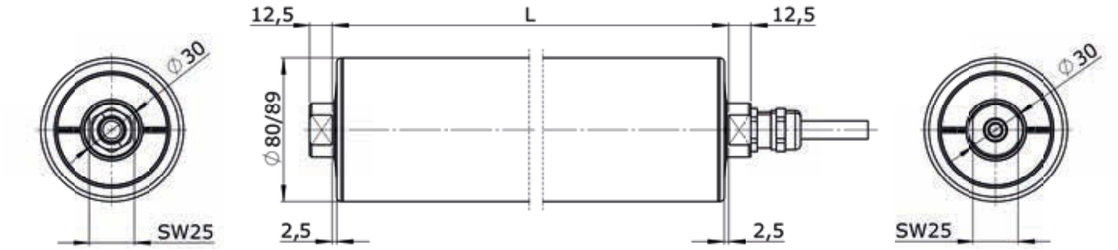
Connections CAN version

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

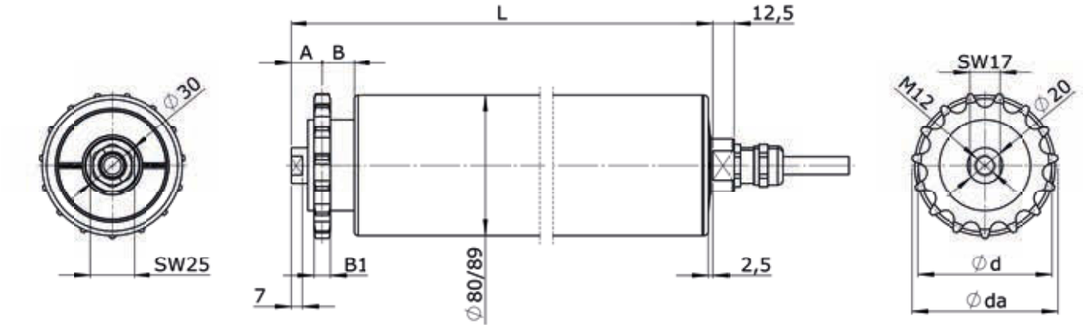
Connections version I/O

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	

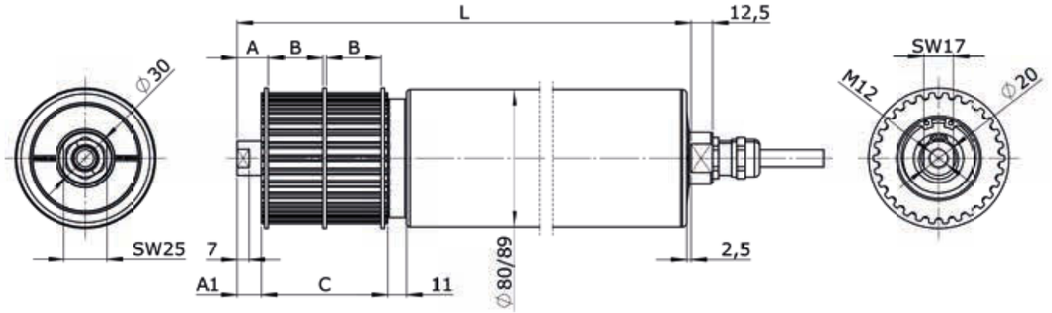
Mechanical versions



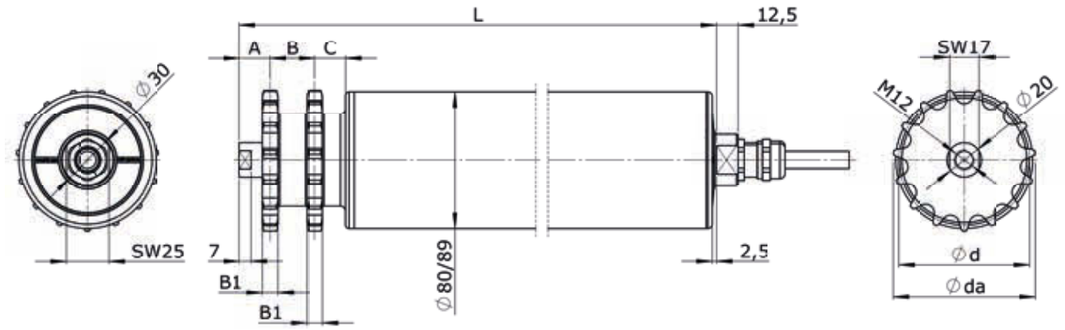
smooth



Single sprocket



Timing belt pulley



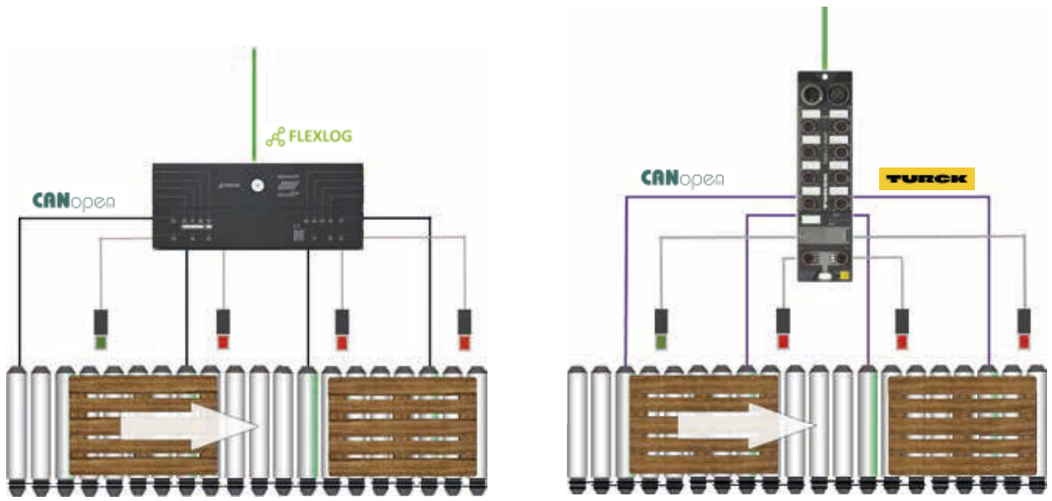
Double sprocket

variable	Single sprocket [mm]	Double sprocket [mm]	Timing belt pulley [mm]
A	18		
B	18	26	32
C	-	18	73.7
L	clamping length		
A1	-	-	14.15
B1	9.1		-
Ød	76.36		-
Øda	83		-
Number of teeth	15		-

Easy system integration

Our motorized rollers can be seamlessly integrated into common industry standards via standardized interfaces. The integration is quick, flexible and without much effort.

Easy integration into automation solutions via the **CAN interface integrated directly into the motor roller**.



Easy integration into automation solutions via the I/O interface integrated directly into the motor roller

