Electric stopper EFSD

All electrical!

Cover distances in a short time and then stop on the dot. Give feedback and continue on command. The electric stopper does it, from cushioning and stopping to outputting a sensor signal and receiving direct commands via the PLC.

Single interface
The electric stopper can be connected directly to the digital input/outputs of a PLC thanks to the integrated motor controller and the combined power supply interface.

Very easy assembly
This reduces assembly to just four screws – two mounting screws and one electrical plug each for input and output signals.

Highlights
- Easy to install
- Can be connected directly
- Adjustable cushioning
- Integrated sensor for position feedback

Stopping made easy!
Electric stopper EFSD

Features at a glance

- Status indication LEDs
- M12 plug for actuator signal
- M12 plug for sensor signal
- Adjustable pneumatic cushioning
- Stopper lever
- Counterbore (also for centring rings)

The size of the electric stopper is determined by the speed and mass of the conveyed goods.

<table>
<thead>
<tr>
<th>Speed</th>
<th>Size 20</th>
<th>Size 50</th>
<th>Size 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 m/min</td>
<td>0.25 ... 20 kg</td>
<td>1 ... 50 kg</td>
<td>3 ... 100 kg</td>
</tr>
<tr>
<td>9 m/min</td>
<td>0.25 ... 10 kg</td>
<td>1 ... 35 kg</td>
<td>3 ... 70 kg</td>
</tr>
<tr>
<td>12 m/min</td>
<td>0.25 ... 7 kg</td>
<td>1 ... 30 kg</td>
<td>3 ... 60 kg</td>
</tr>
<tr>
<td>18 m/min</td>
<td>0.25 ... 3.5 kg</td>
<td>1 ... 18 kg</td>
<td>3 ... 50 kg</td>
</tr>
<tr>
<td>24 m/min</td>
<td>0.25 ... 2.5 kg</td>
<td>1 ... 12 kg</td>
<td>3 ... 45 kg</td>
</tr>
<tr>
<td>30 m/min</td>
<td>0.25 ... 2 kg</td>
<td>1 ... 8 kg</td>
<td>3 ... 30 kg</td>
</tr>
<tr>
<td>36 m/min</td>
<td>0.25 ... 1 kg</td>
<td>1 ... 5 kg</td>
<td>3 ... 20 kg</td>
</tr>
<tr>
<td>With friction coefficient [μ]</td>
<td>0.1</td>
<td>0.1</td>
<td>0.07</td>
</tr>
</tbody>
</table>

Application of the EFSD

This stopper is specifically designed for use in transfer systems, where objects are transported from one processing station to the other. The EFSD can be mounted directly on the profile of the transfer system with just two screws.

Operating mode of the EFSD

Functional sequence of the stopping and subsequent release process:

1. Stopper lever in initial position
2. Stopper lever in hold position
3. Stopper lever in release position

Technical data

- Width [mm]: 35, 40, 44
- Height [mm]: 60.5, 78, 78
- Length [mm]: 116.4, 136.7, 147.2
- Max. lateral force [N]: 20, 50, 100
- Lever extending/retracting time [s]: 0.1, 0.15, 0.3
- Working stroke [mm]: 7, 8.6, 8.6
- Electrical inputs/outputs: 1 control input and 2 switching outputs (PNP)
- Power supply: 24 V ± 15% (DC)
- Maximum current consumption: 2 A
- Plugs: 2 x M12 x 1.5 pin (for actuator and sensor signal)
- Ambient temperature [°C]: −10 ... +60
- Protection class: IP 40
- Cushioning: Pneumatic cushioning (atmospheric pressure)

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