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| **At a Glance**   * Roller motors (MDRs) play a central role in storage conveyor technology for conveying the stored goods from A to B. * With its G20 motor roller modules, Pepperl+Fuchs offers an unsurpassed and extremely flexible solution for controlling these roller motors precisely. |

# A Perfect Solution—G20 Modules for Controlling Motorized Drive Rollers in Material Handling

**The G20 motor roller modules from Pepperl+Fuchs are the perfect solution for controlling motorized drive rollers (MDRs) in conveying technology applications because of their unsurpassed housing mechanics, compatibility with a multiplicity of motorized drive rollers, and support for three different communication interfaces.**

In storage conveying technology, motorized drive rollers (MDRs), in other words conveyor rollers in which the motor electronics are installed directly in the roller, play a central role for the automatic transport of conveyed products from A to B. With the G20 motor roller modules, Pepperl+Fuchs has the perfect solution for precisely controlling these motorized drive rollers. The G20 modules boast an unrivaled housing mechanism, which makes it possible to mount the modules directly in the rail. All the required connection cables for motorized drive rollers and trigger sensors are already integrated on the modules, and the flat cable for voltage supply can easily be inserted using the swiveling mechanism without tools.   
  
To provide the optimum interface for the application, the G20 modules are available with IO-Link, AS-Interface, or with integrated logic (ZPA). While IO-Link is particularly suitable for applications with high IO density, ASi is better in applications with widely distributed IOs. In the case of long unbranched conveying sections, the zero pressure accumulation (ZPA) version in turn boasts outstanding integrated logic, which makes it independent of a higher-level controller.   
  
In addition, customers are also completely free when connecting the motorized drive rollers since the modules support all current motorized drive rollers in both 24 V and 48 V in a single device, depending on the auxiliary voltage applied. If, however, a special solution is required, customer-specific developments are always welcome.

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| **Caption** | Figure 1: Unsurpassed housing mechanism for direct integration in the rail |
| **Download URL**  <https://myconvento.com/public/get_file.php?id=enc2_VUV4MFRERmFVbk4zTjBjME0zbElWRkZET0U5VlVUMDk&download=1> | |

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| **Caption** | Fig. 2: IO-Link version for up to 4 motorized drive rollers and 8 digital IOs |
| **Download URL**  <https://myconvento.com/public/get_file.php?id=enc2_UjBSRmRtdDBkMEpsSzFaQ2NGWjViazFwTWxVelFUMDk&download=1> | |

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| **Caption** | Figure 3: G20 with IO-Link, ASi or ZPA optimized for each application |
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