

TURCK

Industrial I/O CANopen Products

Cordsets & Media

CANopen follows the CAN specification, and requires cabling to carry CAN High, CAN Low and ground signals. Optional signals include Shield, V+ (device power) and V- (device power). **TURCK** CANopen cables include the required signals, as well as the shield and power supply signals, with a common reference on the ground wire.

There are several different standardized connectors for CANopen. **TURCK** normally offers cordsets with *minifast*[®] (7/8-16 UN), *eurofast*[®] (M12) and open style options. Cables are available in different physical sizes for more flexibility (thin cable) or longer trunk lengths (thick cable). **TURCK** cordsets for the CANopen system are available in standard lengths. Please contact your local sales representative to order custom lengths.

Addressing

CANopen systems allow up to 127 devices on the network. **TURCK** CANopen stations may be addressed between 1 and 99 via rotary decimal coded switches.

Maximum Ratings

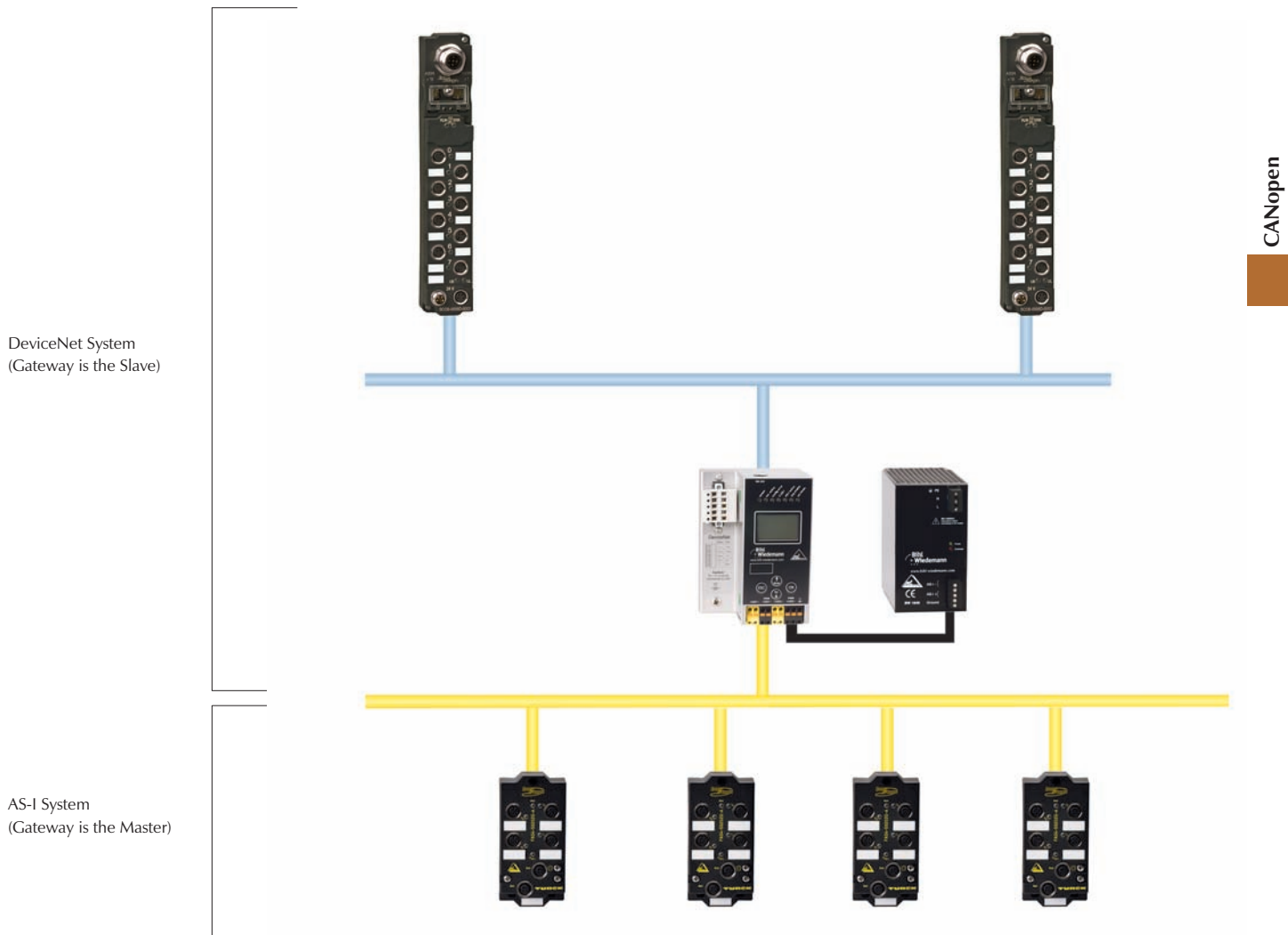
CANopen can operate at data rates from 10 kbaud to 1 Mbaud, with trunk lengths ranging from 5000 m at the low speed to 25 m at the highest speed.

Communication Rate	Trunk Length
10 kbps	5000 m
20 kbps	2500 m
50 KBit/s	1000 m
125 kbps	500 m
250 kbps	250 m
500 KBit/s	100 m
800 kbps	50 m
1000 kbps	25 m

CANopen to AS-interface® Gateways

AS-I systems can easily be connected to a higher-level network, such as CANopen, through a gateway master. The gateway acts as a master to the AS-I system(s) and a slave to the CANopen system, mapping all of the AS-I data for CANopen in a single block.

For AS-I specifications and rating details see section E.



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Addressing

CANopen stations must have a network address for communication. The address for AS-i/CANopen gateways may be set via the on-unit display and push buttons. Please consult the manual for a particular gateway for instruction on the procedure.

Diagnostics

AS-i/CANopen gateways contain LEDs for diagnosing I/O and communication problems for CANopen and AS-I. For a detailed description of the LED states please see the Bihl+Wiedemann AS-i/CANopen Gateway User Manual available for download from www.bihl-wiedemann.com.

Power

Most of the AS-i/CANopen gateways available draw power from the AS-I power supply. The option to use a separate, non-AS-I power supply is also available. Consult the gateway documentation to ensure the gateway being selected meets the requirements of your system.