

HeavyDuty Technology with Integrated Function-checking



Encoders from Baumer Hübner are designed to steadily function even in the toughest environments. They are successfully operating since many decades in various fields of demanding industries. Still there are some applications where trust in technology is simply not enough.

The new encoder series HOG 9.2 and HOG 10.2, which is identical in mechanical design to the well established HOG 9 and HOG 10, now features an embedded function-checking system the so-called “Enhanced Monitoring System” (EMS). It is based on a rapid microprocessor that is continuously monitoring all the encoder’s working functions over the full speed range. Any eventual malfunction or error is quickly and reliably detected.

The control system is informed by a message transmitted by an additional alarm output. The prevailing operating status is visualized by an LED provided at the encoder housing.

Green means proper operation, red flashing warns of an error in bar or signal sequence, red continuous signals output driver overload. LED non-luminous means power loss or incorrect encoder connection. This way, the user is informed any time about the encoder’s operating status what is of considerable benefit already during installation and commissioning. Any improper operation, maybe due to faulty encoder connection is easily detected for immediate correction.

The new HeavyDuty encoders by Baumer Hübner are even capable of more: Long lines and high output frequencies (high speeds) often cause difficulties to conventional encoders in transmitting a proper HTL signal. Worst case, they even switch off. The new incremental encoders therefore provide improved, optimized power drives for reliable line driving of incremental HTL signals over 300 meters distance at a 100 kHz frequency and an encoder temperature of 100 °C.