# LEDs TALK INDUSTRIAL ETHERNET

INTELLIGENT. POWERFUL. PRECISE.

SICK
Sensor Intelligence.

1. Precise positioning with optical 18-bit single turn & 12-bit multi turn resolution for optimum work results

2. Maximum system availability via min / max values for position, velocity & temperature

3. Compact housing saving space

4. Five Duo LEDs for status display offering visible security

www.sick.com.au
www.sick.co.nz

## Networking like there's no tomorrow

The trend in the market is increasingly moving towards Industrial Ethernet-based fieldbus systems. The rapid technical developments such as Fast Ethernet, dual-port switches, and full-duplex transmission have turned the original Ethernet into a powerful communication system. The benefits of using Industrial Ethernet–based fieldbuses make these networks a future standard in factory, logistics, and process automation.

As a trendsetter, SICK have therefore added the three most popular Ethernet variants PROFINET, EtherCAT and EtherNet/IP to its proven absolute single and multiturn encoders AFS60/AFM60.

Extensive diagnostic functions offer here real added value:

With up to 62.5 µs data transmission spend "on the fly", the AFS60/AFM60 devices with EtherCAT interface ensure an enormous increase in productivity thanks to their high performance and short cycle times.

In addition, thanks to its integrated embedded switch technology, EtherCAT supports a wide variety of possible network topologies such as line, ring, tree, star and combination of these.

The absolute encoders AFS60/AFM60 PROFINET are used as a PROFINET IO (RT) variant within the PROFINET network.

With a data refresh time of less than 5 ms, these encoders are tailor-made for real-time communication (RT) in the PROFINET network.

Also PROFINET and the PROFINET encoders from SICK support all network topologies.

The outstanding feature of the absolute encoders AFS60/AFM60 EtherNet/IP is the Device-Level-Ring functionality (DLR).

DLR is a revolutionary ring topology that requires no additional switches. The cabling is done directly from encoder to encoder. This reduces effort and costs compared to the cabling of a star-topology. In this way, AFS60/AFM60 EtherNet/IP leads to a failure-tolerant, fast and above all operationally safe network.

A face mount flange, servo flange and blind hollow shaft are available as mechanical interfaces for all three variants. Thanks to extensive accessories such as universal torque supports, couplings, mounting bells, diverse connector technology and much more, the encoders can be appropriately adapted to almost any application.

For more information please contact your SICK sales representative:
Australia: 1800 334 802 (Tollfree) or visit www.sick.com.au
New Zealand: 0800 222 278 (Tollfree) or visit www.sick.co.nz

Melbourne | Sydney | Brisbane | Adelaide | Perth | Launceston | Auckland | Christchurch | Wellington

SICK
Sensor Intelligence.