Intelligent incremental encoders from ifm. The first with display and IO-Link.
Without compromise:
The precision of optical encoders and the robustness of magnetic systems combined in one unit.

Flexible:
The resolution (2…10,000) and the signal level (TTL / HTL) are programmable.

Universal:
Only one voltage range from 4.5…30 V DC.

Multifunctional:
Integrated signal evaluation for rotational speed / direction of rotation monitoring as well as counter function.

Intuitive:
Easy adjustment by means of pushbuttons, display and intuitive menu navigation.

Informative:
Two-colour display for indicating the process values.

Networked:
Diagnostic and parameter data are reliably transferred via IO-Link. Ready for Industry 4.0.

Communication via IO-Link
All new encoders allow parameter setting via IO-Link. The transmission of process and diagnostic data creates transparency and increases the operational reliability. These options of communication ensure that the units are more than fit for Industry 4.0.

Display ensures a clear overview
All functions and parameters can be set on the unit via pushbuttons and LED display. During operation the current pulse, count or rotation-al speed values are displayed according to the set mode.
The innovation:
The two colours (red / green) show the user at once if the machine is in the acceptable range or if limits have been exceeded. Furthermore the display can be rotated electronically by 180 degrees which allows flexible installation positions.

Powerful electronics makes it possible
The encoders are equipped with a 32-bit microprocessor. So, the precision and the dynamic range are on a par with optical encoders. With a resolution of 16 bits a precision of < 0.1°

BasicLine
The basic version for users who want to use the unit as encoder and need no
Intelligent, simple and flexible.

**Motion controller**
Reduce the burden on your controller: the most important pulse evaluation functions are already integrated in the encoder.

**Incremental encoders**
The resolution between 2 and 10,000 pulses per revolution can be freely set.

**Counters**
The switching output switches after a freely adjustable number of pulses.

**Monitoring rotational speed / direction of rotation**
The outputs switch when the current value is above or below a set rotational speed.

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<th>Design</th>
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<th>Shaft Ø [mm]</th>
<th>Design shaft</th>
<th>Flange</th>
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(12-bit) is reached. Signals are transmitted almost in real time.

buttons or display. The units can all be set via IO-Link.

For more information, such as technical data, application videos or prices please go to

www.ifm.com/gb/encoder
Over 70 locations worldwide – at a glance at www.ifm.com

Overview
ifm product range:

Position sensors

Sensors for motion control

Industrial imaging

Safety technology

Process sensors

Industrial communication

Identification systems

Condition monitoring systems

Systems for mobile machines

Connection technology

Accessories