Intelligent manufacturing.

With automation and IIoT to the zenith of your production.

ELCO combines your production and the Industrial Internet of Things on a **strategical level**. According to this, we supplement your project with our newest hard- and software products.

With ELCO as a partner, you profit from an enormous product range. You also have a reliable service provider by your side that guides your company into the digital age.



PRODUCT OVERVIEW







INDUCTIVE SENSORS

- Detection of metallic objects
- ✓ Various rectangular & barrel shapes
- ✓ Different body materials
- ✓ High switching distances
- ✓ Pressure-resistance up to 500 bar
- ✓ Short-circuit-proof & overload-proof
- ✓ Protection class up to IP69k
- ✓ Resistance against magnetic field interferences

CAPACITIVE SENSORS

- ✓ Detection of conductive & non-conductive objects
- ✓ Various rectangular & barrel shapes
- ✓ Different body materials
- ✓ Short-circuit-proof & overload-proof
- Sensitivity control by the means of potentiometer
- ✓ Protection class up to IP69k









PHOTOELECTRIC SENSORS

- Detection of movements & distances
- ✓ Detection of light, dark & transparent objects
- Red light, infrared light or laser technology
- ✓ Short-circuit-proof & overload-proof
- ✓ Range up to 150 m
- ✓ Protection class up to IP69k





SUPER SONIC SENSORS

- ✓ Object control & filling level control
- ✓ Analog & digital output
- ✓ Location check & status check with high range
- ✓ & many more features



ELCO sensors - when performance is needed.

PRECISE DETECTION. ALWAYS & EVERYWHERE.



Today, it is already about time to think of the challenges we will be facing tomorrow: That motto perfectly describes our approach to the topic of sensor technology. According to this, we place an emphasis in efficient systems that have proven themselves in very harsh environments. Together with our customers and clients, we keep redefining the boundaries of the possible.

ELCO sensors enable the detection of (final) positions and filling levels. We keep optimizing our products' compatibility as well as their resistance and their degree of efficiency. Even now, ELCO already offers special solutions for almost every type of application.

It would be a pleasure for us to design a fully customized solution in cooperation with you as well. Just let us know.

INCREMENTAL ENCODERS

- Optical or magnetical position detection
- ✓ High-precision scan
- Excess current & short circuit protection
- ✓ Very high mechanical strength
- Various housing sizes for space-saving installation
- ✓ Housing made of full alloy





ENCODERS



ABSOLUTE ENCODERS

- ✓ Optical or magnetical position detection
- ✓ Single turn resolution up to 18 bit
- Multi turn resolution up to 30 bit
- ✓ Various housing sizes
- ✓ Supports different bus protocols:
 - Ethernet PROFINET I/O
 - Ethernet/IP
 - ✓ EtherCAT Interface
 - and other







ENCODERS FOR SPECIAL ENVIRONMENTS

- Explosion protection
- ✓ High corrosion protection due to stainless steel housing / anti-corrosion layer
- ✓ Temperature tolerances from -40 °C up to +110 °C
- ✓ Solid shaft, blind shaft or hollow shaft
- ✓ Fit for harsh environments (metallurgy / petrochemistry)

26

A variety of product properties precisely matched with your application.

TECHNOLOGY THAT PAYS OFF.



Clear stage for ELCO's core competency: encoder technology. With extensive experience and the inventiveness of one hundred development engineers, we are known for a wide product range. Our daily business: designing and offering high-performance encoders that meet various requirements, environments, and applications.

Regardless of your specific needs: Our informed employees at sales, development, and production define solutions that go perfectly along with the situation at your operation site. We oversee each and every step of your project and we are always on spot if you need us from the initial requirement analysis up to the finished OEM product.



ROUND PLUG SERIES

- ✓ M8, M12 & 7/8" connection, flanges

 M8, M12 & 7/8" connection, flanges

 M8, M12 & 7/8" connection

 M8, M12 & 7/8" connecti
- ✓ Common codings with flexible line length
- √ Various cable types
 (PUR / PVC)
- ✓ Shielded models
- ✓ Fabricated one-sided or both-sided
- ✓ Self-connecting models
- ✓ Optional status LED
- ✓ Protection class IP67

FIELDBUS CABLES

- ✓ M8, M12 & RJ45 connection

 tion
- ✓ Supports common bus systems
- ✓ Self-connecting RJ45
- ✓ Various cable types (PUR / PVC)
- √ 360° lacing
- ✓ Highly flexible cables with bending radii up to 26 mm (flex.i.wire)
- ✓ Certified according to UL







Y-DISTRIBUTORS & T-PIECES

- ✓ M8, M12 & 7/8" connection

 Tion

 M8, M12 & 7/8" connection

 M8,
- ✓ Y-distributors with flexible line length
- √ Various circuit diagrams
- ✓ Optional status LED
- ✓ Protection class IP67







SPECIAL SOLUTIONS

- ✓ Brand label products
- Customized printing
- Customized circuitry
- Assemblies
- ✓ On request: one batch size in stock in GER





EXCELLENT SIGNAL TRANSFER.



ELCO connectors are reliable industrial lines that offer high protection against various environmental influences. Besides preassembled connectors, ELCO also supplies you with a variety of user-configurable lines in the industrial standards M8, M12, and 7/8".

Our connectors are equipped with a high-quality overmold that increases their durability. They simplify the installation and networking of your machines. In addition, our connectors provide a high degree of protection from contact problems as well as a high reverse polarity protection.

At ELCO, you can define your desired line length in 10-centimeter-steps, starting at a total length of 10 centimeters. We also would be pleased to supply you with our power and signal distribution boxes (I/O systems).

www.elco-automation.de



PASSIVE DISTRIBUTION BOXES M8 & M12

- ✓ Compact & classic design
- ✓ Up to 8 or rather 12 slots with metal sleeve
- ✓ Status LED display
- ✓ M12 / M23 connection
- ✓ Master cable or removable cover
- ✓ Scheme logic PNP / NPN
- ✓ Protection class IP67

ACTIVE DISTRIBUTION BOXES COMPACT67

- ✓ Compact design with M8 or M12 threads
- ✓ Slots with metal sleeve
- ✓ Scheme logic PNP / NPN
- ✓ Up to 16 freely configurable I/Os
- ✓ Diagnosis via module level & channel level, and via controlling system
- ✓ Status LED display
- ✓ Protection class IP67





I/O SYSTEMS

COMPACT67 IO-LINK SERIES

- ✓ IO-Link V. 1.1
- ✓ Master with up to 8 IO-Link ports
- Class A and/or class B ports
- ✓ IO-Link hubs with up to 16 channels in M8 & M12
- ✓ Status LED display
- ✓ Protection class IP67



ACTIVE DISTRIBUTION BOXES SPIDER67

- Gateway for common field bus systems
- ✓ Compact design
- Status LED display at the node
- ✓ Slots with metal sleeve
- Digital & analog extension modules
- ✓ Diagnosis on module level & channel level, and via controlling system
- ✓ Scheme logic PNP / NPN
- ✓ Up to 8 freely configurable I/Os
- ✓ Protection class IP67















Various possibilities – summed up in one system.

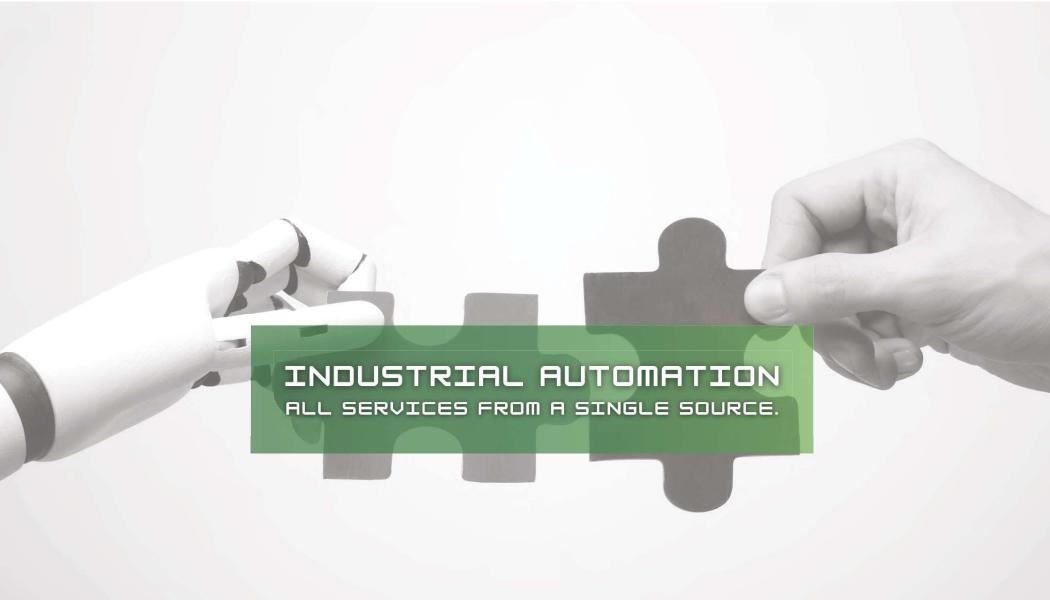
PROCESS OPTIMIZATION & DEVICE MAINTENANCE IN ONE.

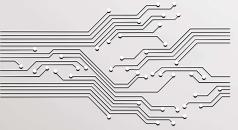


How about highly efficient industrial interfaces? With our bus I/O modules, you multiply your company's turnover and profit: thanks to a perfect match with different environments and application scenarios.

Our field bus modules of the Compact67 and the Spider67 series enable the fast connection and networking of your machines and devices. As their name implies, all ELCO I/O systems are IP67-tested and they are therefore fit for harsh industrial environments.

The application range of our I/O modules includes power supply, signal transmission, bus communication, and even system diagnosis. Due to the enormous product selection, we always have the right solution available.





... SO WHY NOT DIGITIZE WITH ELCO AS WELL?