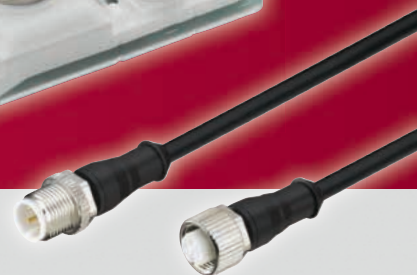


CABLES AND DISTRIBUTION BOXES

Connection technology for industrial sensor applications



NO ACTION WITHOUT CONNECTION

It is the proper connection or interconnection cables and passive distribution boxes that make a system operable.



DISTRIBUTION BOXES AND CABLES FOR EVERY APPLICATION

The times in which customers themselves needed and wanted to look after each individual component are long past. Today, it is important to offer complete systems in which all individual parts are optimally matched to one another to avoid unpleasant surprises during mounting and commissioning.

Our wide selection of distribution boxes and cables can offer precisely this security, as it strictly follows the familiar Leuze electronic quality requirements. Thus, our commitment to Smart Sensor Business permeates every cable.



NO RISKS

The smallest and most insignificant components can sometimes cause the largest problems if the quality is not up to par or if supposedly unproblematic compatibilities turn out to be anything but in practice. It is for this reason that we decided to also offer cables and distribution boxes for our sensor solutions ourselves. Only in this way can we test and ensure that a complete sensor system functions properly and reliably.

easyhandling.

- Highly visible, different-colored, bright LEDs
- Distribution-box master cables with plug, cable or clamp connection
- Standardized distribution box mounting
- Description fields for the port assignment
- Preassembled and user-configurable cables and connectors
- Cables with straight or angled connection

thinkmodular.

- Distribution boxes for either M8 or M12 sensor connection
- Models with 4 / 6 / 8 and 10 sensor/actuator ports
- Cables are available for sensors with 3-, 4-, 5-, 8- and 12-pin connection
- Flexible connection options available for master, connection and interconnection cables in 1, 3, 5 and 10 m lengths
- Port extension via T-distribution boxes

CABLES AND DISTRIBUTION BOX

Various materials and function ranges offer an appropriate solution for every application.



Connection and interconnection cables
M8 and M12

	M8	M12
Number of pins	3 and 4	3, 4, 5, 8 and 12
Nominal current per contact	≤ 4 A	
Cable material	PUR, PVC	
Encoding	B	A, B, D, X
Temperature range flexible installation	-25 ... +80 °C	
Temperature range fixed installation	-40 ... +80 °C	
Degree of protection	IP 67, IP 69K	IP 65, IP 67, IP 69K
Cable lengths*	2, 5, 10 and 20 m	2, 5, 10, 30 and 50 m

* other lengths on request

- Shielded and unshielded
- Interconnection cables with two connectors or open cable end
- LED status indicator: green / orange
- Certifications: cULus

Cable material:

- Halogen-free PUR – for harsh operating conditions with maximum abrasion resistance, drag-chain compatible and very resistant to oils, coolants and lubricants
- PVC – for moderate mechanical demands, easy to strip, highly resistant to ECOLAB-certified cleaning agents in hygiene applications
- RoHS compliant



Distribution box
M8 ports

	M8
Number of sensor ports	4, 6, 8, 10
Nominal current per contact	≤ 1,5 A
Temperature range	-20 ... +60 °C
Connection for sensors	3-pin
Connection to the control	M12, permanently connected master cable
Degree of protection	IP 65, IP 67
Cable lengths	3, 5 and 10 m

- LED status indicator: green / orange
- Material: plastic, RoHS-compliant
- Standardized mounting
- Lightweight construction
- Certifications: CE and cULus



Distribution box
M12 ports

	M12
Number of sensor ports	4 and 8
Nominal current per contact	$\leq 1.5 \text{ A}, \leq 4 \text{ A}$
Temperature range	$-20 \dots +60 \text{ }^\circ\text{C}$
Connection for sensors	3-, 4-, 5-pin
Connection to the control	M12, M23, terminals, permanently connected master cable
Degree of protection	IP 65, IP 67
Cable lengths	3, 5 and 10 m

- LED status indicator: green / orange / white (with 4-pin)
- Material: plastic, RoHS-compliant
- Standardized mounting
- Lightweight construction
- Certifications: CE and cULus



Wide selection of connection and interconnection cables for industrial automation in a variety of application areas.



With freely configurable connectors, individual cable lengths can be realized and thereby facilitate maximum flexibility in machine planning.



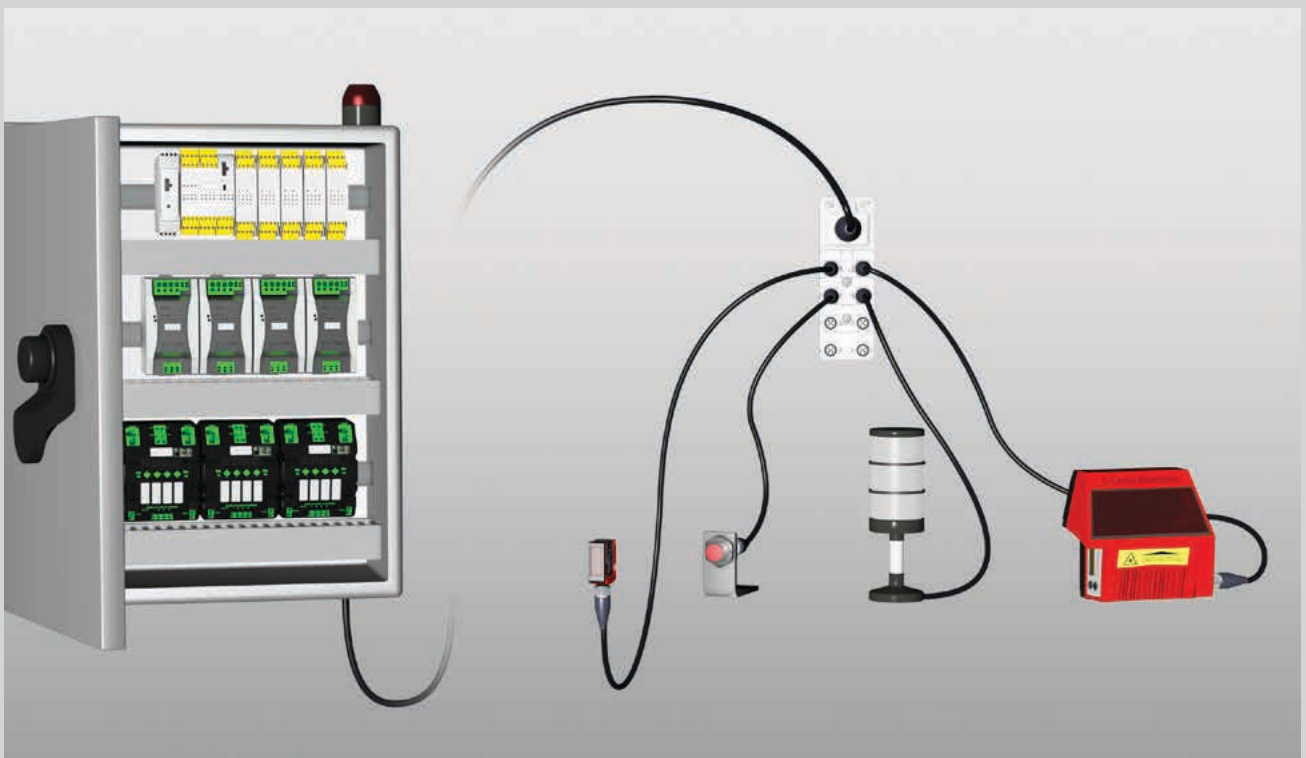
T-distribution boxes for various interfaces at the device connection for bundling signals as well as adapters for additional flexibility.



Torque wrench for non-destructive mounting without applying excessive pressure to the O-ring for connections acc. to IP 67.

THIS IS HOW SENSORS ARE CONNECTED TODAY

Our example shows how easy and uncomplicated work with Leuze electronic can be.



Connection example with sensor distributor (IO-Link-capable)

OTHER USEFUL COMPONENTS FOR YOUR ENTIRE SYSTEM

Power supplies



Active distribution box /
IO-Link master



Switching sensors



OUR PROMISE TO YOU

SMARTER **PRODUCT USABILITY**

With regard to our product developments, we systematically place emphasis on the especially good usability of all devices. To this end, simple mounting and alignment are taken into account – just as the uncomplicated integrability of the sensors in existing field bus systems and easy configuration, e.g. via a web browser, are.

SMARTER **APPLICATION KNOW-HOW**

Whoever can do it all, can do nothing right. Which is why we concentrate on selected target sectors and applications. There, we are specialists and know all aspects inside out. For this purpose, we optimize our solutions and offer a comprehensive product range that makes it possible for our customers to obtain the absolute best solutions from a single source.

SMARTER **CUSTOMER SERVICE**

The technical and personal proximity to our customers, and a skilled, straightforward handling of queries and problems, are among our strengths – and will remain so. Consequently, we will continue to expand our service offerings and, indeed, also forge ahead in new directions to persistently redefine the utmost in customer service. Whether on the phone, on the Internet or on-site with our customers – regardless of when and where the expertise of the sensor people is needed at any time.

Info at: www.leuze.com



Martina Weil,
Employee in the
Customer Care Center



Switching Sensors

Optical Sensors
Ultrasonic Sensors
Fiber Optic Sensors
Inductive Switches
Forked Sensors
Light Curtains
Special Sensors

Measuring Sensors

Distance Sensors
Sensors for Positioning
3D Sensors
Light Curtains
Forked Sensors

Products for Safety at Work

Optoelectronic Safety Sensors
Safe Locking Devices, Switches and Proximity Sensors
Safe Control Components
Machine Safety Services

Identification

Bar Code Identification
2D-Code Identification
RF Identification

Data Transmission/ Control Components

MA Modular Connection Units
Data Transmission
Safe Control Components
Signaling Devices
Connection Technology and Passive Distribution Boxes

Industrial Image Processing

Light Section Sensors
Smart Camera

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