FACTORY AUTOMATION

IDENT Control

innovative, flexible, practical

Two mounting solutions allow IDENT Control to be used in an enclosure or field mount situation. IDENT Control is DIN rail mountable and features an L-shaped design that allows the device, including the bus connections, to fit into a 120 mm wide opening. The required installation depth is only 70 mm, which allows installation in 100 mm deep junction boxes. Three mounting holes allow the IDENT Control to be mounted in the field using the screws.

The connection concept—everything is plug-in

With enclosure and field-mounting options, IDENT Control is always the right choice.

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PRODUCT OVERVIEW IDENT CONTROL SYSTEM

Order Code Description
IC-IF-B6-V1D IDENT Control, Control interface unit for use in enclosures and field applications, 4 inductive read/write heads and microwave antennas can be connected using standard quick disconnects, display, direct operation, trigger function on request, PROFIBUS DP, DeviceNet serial RS 232, RS 485 addressable, 8 bit memory (durable)
IC-IF-B12-V45 IC-IF-B6-V1D, PROFIBUS DP, DeviceNet serial RS 232, RS 485 addressable, 8 bit memory (durable)
IC-IF-R2-V1 IDENT Control, 965 MHz, with dual-purpose power green and read/write (amber) LED, connection class IP67, construction types B6, B12, size 94 x 77 x 18 mm, 125 kHz 54, 64, 80 mm and P12, 64, 80, 10 mm with M12-connector (green, amber)
IC-IF-R4-V15B IC-IF-R2-V1, PROFIBUS DP, DeviceNet serial RS 232, RS 485 addressable, 8 bit memory (durable)
IC-IF-B7-V15 IC-IF-R4-V15B, PROFIBUS DP, DeviceNet serial RS 232, RS 485 addressable, 8 bit memory (durable)
IC-IF-B5-V23 IC-IF-B7-V15, PROFIBUS DP, DeviceNet serial RS 232, RS 485 addressable, 8 bit memory (durable)
IC-P22-23M IDENT code carrier, 125 kHz, 40 bit fixcode and 24 bit data security, ROM, number of read cycles unlimited, protection class IP67, housing material: polycarbonate (PC)
IC-P22-50M IDENT code carrier, 125 kHz, 40 bit fixcode and 24 bit data security, ROM, number of read cycles unlimited, protection class IP67, housing material: polycarbonate (PC)
IC-P22-90M IDENT code carrier, 125 kHz, 40 bit fixcode and 24 bit data security, ROM, number of read cycles unlimited, protection class IP67, housing material: polycarbonate (PC)
IWMC-68-MK Microwave antenna, 2.45 GHz, with storage capacity of 8 kByte or 32 kByte, with encapsulated or replaceable battery, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm
IWMC-68-MK Microwave antenna, 2.45 GHz, with storage capacity of 8 kByte or 32 kByte, with encapsulated or replaceable battery, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm
IP7-C01 Hand-held device for inductive data carriers (125 kHz)
MV-M0125C Hand-held device for microwave data carriers
Y1-V2-MPUR-ABS-IV-V-W Shielded PUR cables with a length of 5 m or 10 m for connection of read/write heads
Y1-V2-MPUR-ABS-II-V-S Shielded PUR cables with a length of 5 m or 10 m for PROFINET connection (free accessible)
Y1-V2-MPUR-RS-Y-G Shielded PUR cables with a length of 5 m or 10 m for connection of power supply
ICZ-V10 Millions connection for PROFIBUS connection, allows the replacement of the device without interfering bus communication, cable directly bridged, shielded version
ICZ-S-1000-W1-SG Patch cable for connection of the IDENT interface in IP20, 10 m
ICZ-HEAT Heat shrink for patch cable connection, on the consent side IP67
IDENT 3505 CD-ROM Demo- and parameter assignment software for the IDENT Control System

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IDENT Control

INNOVATIVE, FLEXIBLE, PRACTICAL

FACTORY AUTOMATION

SIGNALS FOR THE WORLD OF AUTOMATION
**System Description**

The name IDENT Control stands for an innovative identification system with outstanding functionality. The IDENT Control family of products includes the IDENT Control interface supporting the most common bus systems connections, inductive/RFID heads 13.5 kHz, a microwave antenna (2.45 GHz), and the appropriate code or data carriers (“tags”). With IP65 protection, the system is well-suited to mounting in either an enclosure or directly on the field. Interfacing with higher level fieldbus systems is simplified with integrated bus connections. This ensures simple installation and makes it easy to replace the device quickly and without bus interruptions in the event of a malfunction. Using strict EMC design concepts (metal housing, grounding conductor, shielded cables, etc.), the system raison immunity meets or exceeds current standards. Parameter assignment and command input are possible either directly on the IDENT Control or via function keys or with the IDENT 2005 parameter assignment software.

**Hard-Real Devices for Mobile Solutions**

Mobile ready-to-use device based on a convenient Flex system are available to work with inductive data carriers. Inductive code and data carriers can be accessed using a Palm Workabout.

- 4 function keys
- 2-line LCD for data and device status
- LEDs indicate an active read/write command
- Inductive read/write heads
- Mixed connection for maximum application flexibility
- Read/write heads and trigger sensors
- Protection class IP65
- Metal housing offers optical EMC protection
- Metal housing offers optimal EMC protection

**Fieldbus Connections**

IDENT Control offers integrated interfaces to the most commonly used fieldbus systems such as PROFIBUS, DeviceNet and Interbus. GSD (Device Master Data, German Eräte Daten) and EDS (Electronic Data Sheet) files are available.

**Web Server Functionality**

An EtherNet connection allows remote I/O with its easy-to-use web interface. High transmission rates and new features are possible. Immediate remote access is necessary. If desired, the web content functionality can even inform you via SMS as your server 2005 phone that a malfunction has just occurred in the system. For example, it can tell you which spare part is required, or what sequence is needed. This reduces down times and also makes it possible to simply parameterize remotely with password protection, or with direct enabling on site.

**Advantages of IDENT Control**

- Suitable for enclosure mounting using DIN rails and for field-mounted applications where IP65 protection is needed
- Up to 4 read/write heads can be connected
- Mixed operation of inductive heads and microwave antennas is possible
- IO ports of command input are possible
- No configuration software or external programming needed for bus node addressing
- Direct control via function keys
- Functional response is needed. This reduces down times and also makes it possible to simplify parameterization remotely with password protection, or with direct enabling on site.

**Microwave Antenna**

Wide read distances of up to 0.5 m can be achieved with the microwave antenna (140 x 170 x 40 mm). The connection is implemented with a 4-polar M12 connector.

**Microwave Data Carrier**

The industrial data carrier features protection class IP 68 and a storage capacity of 8 kByte. It has an encapsulated battery with a service life of approximately 8 years. A replaceable battery option is also available.
**Adventages of IDENT Control**

- Suitable for enclosure mounting using DIN rails and for field-mounted applications where IP65 protection is needed.
- Up to 4 read/write heads can be connected.
- Mixed operation of inductive heads and microwave antennas is possible.
- Trigger sensors can be connected to start read/write commands.
- 2-line LCD for data and device status.
- Direct control via function keys.
- No configuration software or external programming needed for bus node addressing.
- On EtherNet enabled systems, a built-in Web server allows for advanced server functionality, e.g. remote control, parameter assignment, advanced malfunction notification (e.g. via cell phone).
- The plug-in design means all components are easy to connect and can be replaced quickly.

**System Description**

The name IDENT Control stands for an innovative identification system with outstanding functionality. The IDENT Control family of products includes the IDENT Control interface supporting the most common bus systems connections, interchangeable heads/heads, etc., which allow for direct enabling on site. A web server functionality can even inform you directly via SMS on your service cell phone that a malfunction has just occurred in the system. For example, it can tell you which spare part is required, or what replacement is needed. This reduces down times and also makes it possible to avoid unnecessary costs with password protection, or with direct enabling via SMS.

**Field bus connection**

IDENT Control does integrated interfaces to the most commonly used field bus systems such as PROFINET, EtherCAT and serial connection. GSD (Device Master Data, German: Gerätägeräte) and EDS (Electronic Data Sheet) files are available.

**Inductive code/data carriers**

- With 412 byte code/data carriers, you can select from many different designs, such as: 1 x 2 x 3 x 4, 1 mm glass tubes to very large (transponder (3 x 3 x 15 mm glass tubes) for microwave antennas (2.45 GHz), and the appropriate code or data carriers (“tags”)

**Microwave antenna**

With read distances of up to 4 m can be achieved with the microwave antenna (140 x 170 x 40) mm. The connection is implemented with a 4-pin M12 connector.

**Inductive head/white heads**

Many different designs, suitable for almost any application, are available in M12, M30, and M4 square-shape designs up to (80 x 80 x 60) mm with read distances of up to 300 mm.

**Microchip data carrier**

The industrial data carrier features protection class IP 67 and a storage capacity of 8 KByte. It has an encapsulated battery with a service life of approximately 6 years. A replaceable battery option is also available.

**Web server functionality**

An EtherCAT connection offers easier access to the most commonly used field bus systems such as PROFINET, EtherCAT and serial connection. GSD (Device Master Data, German: Gerätägeräte) and EDS (Electronic Data Sheet) files are available.
The name IDENT Control stands for an innovative identification system with outstanding functionality. The IDENT Control family of products includes the IDENT Control interface supporting the most common bus systems connections, INDUSTRIDataWires (IDW), a microcontroller (Lx9, EC9), and the appropriate code or data carriers (“Tags”). With IP69 protection, the system is well-suited to mounting in either an enclosure or directly on the field. Interfacing with higher level fieldbus systems is simplified with integrated bus connection. This ensures simple installation and makes it easy to replace the device quickly and without bus interruptions in the event of a malfunction. Using strict EMC design concepts (metal housing, grounding conductor, shielded cables, etc.), the system noise immunity meets or exceeds current standards. Parameter assignment and configuration input are possible either directly on the IDENT Control via function keys or with the IDENT2005 parameter assignment software.

**Advantages of IDENT Control**

- Suitable for enclosure mounting using DIN rails and for field-mounted applications where IP69 protection is needed.
- Up to 4 read/write heads can be connected.
- Mixed operation of inductive heads and microwave antennas is possible.
- Trigger sensors can be connected to start read/write commands.
- 2-line LCD for data and device status.
- Direct control via function keys.
- No configuration software or external programming needed for bus node addressing.
- On EtherNet enabled systems, a built-in Web server allows for advanced server functionality can even inform you directly via SMS on your service cell phone that a malfunction has just occurred in the system.
- Including IP68/IP69K protection classes another powerful feature that makes the system suitable for installation in metal cabinets and in protection classes IP20/IP43.

**Field bus connections**

IDENT Control does integrated interfaces to the most commonly used fieldbus systems such as PROFIBUS, DeviceNet and Interbus. Because all interface units share a similar command structure, the same interface can be virtually universal, regardless of the bus topology used. GSD (Device Master Data, German Geräte Daten) and EDS (Electronic Data Sheet) files are available.

**Web server functionality**

An EtherNet connection allows remote control over the network. High transmission rates and new functions are possible. Interfacing bus systems becomes unnecessary. If desired, the web server functionality can even inform you via SMS on your service cell phone that a malfunction has just occurred in the system. Fieldbus networks do not tell you which spare part is required, or what frequency is needed. This reduces down times and also makes it possible to send spare parts securely with password protection, or with direct enabling on site.

**IDENT2005 — Demo- and parameter assignment software**

This Windows-based software tool offers you the convenient option of adjusting device parameters or sending write/read commands. With this software, all readers and transponders can be accessed via an RS 232 connection.

**Microwave antenna**

Wide read and write distances of up to 0.4 m can be achieved with the microwave antenna. (3 x 3 x 15 mm) glass tubes to very large (transponder 90 x 90 x 60) mm. The connection is implemented with a 4-pin M12 connector.

**Inductive code/data carriers**

With 125 kHz code and data carriers, you can select from many different designs. For extremely small to 12 x 3 x 1 mm glass tubes to very large transponder with 30 mm. Data carriers are available for temperatures up to 300 °C. Various options are available for installation in metal and in protection classes IP20/IP43.
Two mounting solutions allow IDENT Control to be used in an enclosure or field mount situation. IDENT Control is DIN rail mountable and features an L-shaped design that allows the device, including the bus connections, to fit into a 120 mm wide opening. The required installation depth is only 70 mm, which allows installation in 100 mm deep junction boxes. Three mounting holes allow the IDENT Control to be mounted in the field using the screws.

The connection concept — everything is plug-in

**Order Code**

<table>
<thead>
<tr>
<th>Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IC-KP-B6-V15B</td>
<td>IDENT Control: Interface connection, 4 inductive read/write heads and microwave antennas can be connected using standard quick disconnects, display, direct operation, trigger function via sensors, dimensions (145 x 110 x 70) mm (L x B x H), interfacing with standard industrial bus systems B6: PROFIBUS, B12: EtherNet, R2: serial RS 232, R4: serial RS 485 addressable, B7: DeviceNet, B5: Interbus</td>
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<tr>
<td>IC-KP-B12-V45</td>
<td>IDENT Control: Interface connection, 4 inductive read/write heads and microwave antennas can be connected using standard quick disconnects, display, direct operation, trigger function via sensors, dimensions (145 x 110 x 70) mm (L x B x H), interfacing with standard industrial bus systems B6: PROFIBUS, B12: EtherNet, R2: serial RS 232, R4: serial RS 485 addressable, B7: DeviceNet, B5: Interbus</td>
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<tr>
<td>IC-KP-R2-V1</td>
<td>IDENT Control: Interface connection, 4 inductive read/write heads and microwave antennas can be connected using standard quick disconnects, display, direct operation, trigger function via sensors, dimensions (145 x 110 x 70) mm (L x B x H), interfacing with standard industrial bus systems B6: PROFIBUS, B12: EtherNet, R2: serial RS 232, R4: serial RS 485 addressable, B7: DeviceNet, B5: Interbus</td>
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<tr>
<td>IC-KP-R4-V15B</td>
<td>IDENT Control: Interface connection, 4 inductive read/write heads and microwave antennas can be connected using standard quick disconnects, display, direct operation, trigger function via sensors, dimensions (145 x 110 x 70) mm (L x B x H), interfacing with standard industrial bus systems B6: PROFIBUS, B12: EtherNet, R2: serial RS 232, R4: serial RS 485 addressable, B7: DeviceNet, B5: Interbus</td>
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<tr>
<td>IC-KP-B7-V15</td>
<td>IDENT Control: Interface connection, 4 inductive read/write heads and microwave antennas can be connected using standard quick disconnects, display, direct operation, trigger function via sensors, dimensions (145 x 110 x 70) mm (L x B x H), interfacing with standard industrial bus systems B6: PROFIBUS, B12: EtherNet, R2: serial RS 232, R4: serial RS 485 addressable, B7: DeviceNet, B5: Interbus</td>
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<tr>
<td>IC-KP-B5-V23</td>
<td>IDENT Control: Interface connection, 4 inductive read/write heads and microwave antennas can be connected using standard quick disconnects, display, direct operation, trigger function via sensors, dimensions (145 x 110 x 70) mm (L x B x H), interfacing with standard industrial bus systems B6: PROFIBUS, B12: EtherNet, R2: serial RS 232, R4: serial RS 485 addressable, B7: DeviceNet, B5: Interbus</td>
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<tr>
<td>IC-KP-B6-SUB D</td>
<td>IDENT Control: Interface connection, 4 inductive read/write heads and microwave antennas can be connected using standard quick disconnects, display, direct operation, trigger function via sensors, dimensions (145 x 110 x 70) mm (L x B x H), interfacing with standard industrial bus systems B6: PROFIBUS, B12: EtherNet, R2: serial RS 232, R4: serial RS 485 addressable, B7: DeviceNet, B5: Interbus</td>
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<tr>
<td>IPC-20-M23</td>
<td>Ident control module, 20 bit data block and 8 bit data security, RJ45: EtherNet connection with Sub-D 9-pin connector, dimensions (50 x 50 x 24) mm</td>
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<tr>
<td>IPC-20-M12</td>
<td>Ident control module, 20 bit data block and 8 bit data security, Sub-D 9-pin connector, dimensions (50 x 50 x 24) mm</td>
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<tr>
<td>IPC-20-M12</td>
<td>Ident control module, 20 bit data block and 8 bit data security, Sub-D 9-pin connector, dimensions (50 x 50 x 24) mm</td>
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<tr>
<td>IPC-20-M12</td>
<td>Ident control module, 20 bit data block and 8 bit data security, Sub-D 9-pin connector, dimensions (50 x 50 x 24) mm</td>
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<td>MDC-68-M6K</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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<tr>
<td>MDC-68-48K</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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<td>MDC-68-M4K</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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<tr>
<td>MDC-68-M4K</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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<tr>
<td>IFPH-18GM-V1</td>
<td>Hand-held device for inductive data carriers (125 kHz)</td>
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<tr>
<td>IFPH-30GM-V1</td>
<td>Hand-held device for microwave data carriers</td>
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<tr>
<td>IFPH-F61-V1</td>
<td>Hand-held device for inductive data carriers (125 kHz)</td>
</tr>
<tr>
<td>IFPH-L2-V1</td>
<td>Hand-held device for inductive data carriers (125 kHz)</td>
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<tr>
<td>IFPH-FP-V1</td>
<td>Hand-held device for inductive data carriers (125 kHz)</td>
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<tr>
<td>MVH2000-F15-V1</td>
<td>Hand-held device for inductive data carriers (125 kHz)</td>
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<tr>
<td>IPC02-20W</td>
<td>Ident control module, 20 bit data block and 8 bit data security, RJ45: EtherNet connection with Sub-D 9-pin connector, dimensions (50 x 50 x 24) mm</td>
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<td>IPC02-30W</td>
<td>Ident control module, 20 bit data block and 8 bit data security, RJ45: EtherNet connection with Sub-D 9-pin connector, dimensions (50 x 50 x 24) mm</td>
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<td>IPC02-50W</td>
<td>Ident control module, 20 bit data block and 8 bit data security, RJ45: EtherNet connection with Sub-D 9-pin connector, dimensions (50 x 50 x 24) mm</td>
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<td>IPC03-20W</td>
<td>Ident control module, 20 bit data block and 8 bit data security, RJ45: EtherNet connection with Sub-D 9-pin connector, dimensions (50 x 50 x 24) mm</td>
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<td>IPC03-30W</td>
<td>Ident control module, 20 bit data block and 8 bit data security, RJ45: EtherNet connection with Sub-D 9-pin connector, dimensions (50 x 50 x 24) mm</td>
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<td>IPC03-50W</td>
<td>Ident control module, 20 bit data block and 8 bit data security, RJ45: EtherNet connection with Sub-D 9-pin connector, dimensions (50 x 50 x 24) mm</td>
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<tr>
<td>MVC-60-64K</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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<td>MVC-60-256K</td>
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<td>MVC-60B-64K</td>
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<td>IPT-HH9</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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<td>MVT-HH12</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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<td>V1-G-5M-PUR-V1-G</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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<tr>
<td>V1-G-10M-PUR-V1-G</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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<td>V15B-G-5M-PUR-V15B-G</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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<td>V15B-G-10M-PUR-V15B-G</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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<td>ICZ-3T-V15B</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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<td>V1-G-5M-PUR-V1-G</td>
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<td>V1-G-10M-PUR-V1-G</td>
<td>Ident write/read module, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm</td>
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The connection concept — everything is plug-in

The connection concept is implemented using plug-in connectors. This allows for easy reconfiguration of the bus system. The enclosure-mounted and field-mounted solutions use different connectors.

**Order Code**

- IC-4P-B6-V10
- IC-4P-B12-V65
- IC-4P-R2-V10
- IC-4P-R4-V10
- IC-4P-R7-V10
- IC-4P-R9-V10
- IC-4P-R12-V60
- IC-4P-R12-V90

**Description**

- **IDENT Control**: Control interface unit for use in enclosures and field applications, 4 inductive read/write heads and microwave antennas can be connected using standard quick disconnects, display, direct operation, trigger function via sensors, dimensions (145 x 110 x 70) mm (L x B x H), interfacing with standard industrial bus systems B6: PROFIBUS, B12: EtherNet, R2: serial RS 232, R4: serial RS 485 addressable, B7: DeviceNet, B5: Interbus

- **Inductive read/write heads**, 125 kHz, with dual-purpose power (green) and read/write (amber) LED, protection class IP67, dimensions (28 x 77 x 12) mm, L2 (40 x 55 x 40) mm and FP (80 x 80 x 60) mm with M12-connector (4-pin, shielded)

- **Microwave antenna**, 2.45 GHz, with power (green) and communication (amber) LEDs, up to 4 m read/write distance, protection class IP65, dimensions (140 x 170 x 40) mm, M12-connector (4-pin, shielded)

- **Inductive code carriers**, 125 kHz, 40 bit fixcode and 24 bit data security, ROM, number of read cycles unlimited, protection class IP67, housing material: polycarbonate (PC)

- **Inductive data carriers**, 125 kHz, 928 bit EEPROM memory and 32 bit ROM, number of read cycles unlimited, number of write cycles >100,000 per memory block, protection class IP67, housing material: polycarbonate (PC)

- **Microwave data carriers**, 2.45 GHz, with storage capacity of 8 kByte or 32 kByte, with encapsulated or replaceable battery, protection class IP67, housing material: PBT, dimensions (90 x 60 x 19) mm

- **Hand-held device** for inductive data carriers (125 kHz)
- **Hand-held device** for microwave data carriers

- **Shielded PUR M12 cordsets** (with a length of 5 m or 10 m) for connection of read/write heads
- **Shielded M12-extension cables** (B coded) with a length of 5 m or 10 m for PROFIBUS connection (serial, addressable)
- **M12-cordsets** in 5 m or 10 m lengths for connection of power supply
- **Junction “T”**s for PROFIBUS connection, allows the replacement of the device without interrupting bus communication, cables internally bridged, shielded version
- **Patch cable** for connection of the EtherNet interface in IP20, 10 m
- **Sealing nut** for patch cable connection, on the socket side IP67

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