WE GENERATE EXCITEMENT.

Since the foundation of the company in 1950 until today the goal has remained the same: the highest quality in products and services. Nevertheless, the circumstances, tasks and challenges have changed significantly. By focusing on our core areas of expertise, we have set new standards for innovative clamping technology – driven by our own development, the greatest possible flexibility and passion for individual solutions.

All this is only possible with committed and motivated employees. Respectful interaction with others, personal development and measures for the welfare of each individual are therefore values that matter to us.

Pledges that count in everyday life

No contracts and discounts. Our clamping technology is based on our own development and on our own know-how. Clamping technology is driven by our own development, the highest quality standards and which always apply...

Pledges that count in everyday life

6. Right of set-off

If the customer fails to accept the goods in due time, we shall be entitled to set a reasonable period for the forwarding of the goods, the payment of the invoice amount or the supply of the customer on a reasonably longer term. Our rights to withdraw from the contract and to demand the return of goods previously invoiced shall also remain. Demands for non-performance shall not be affected. If the customer fails to pay for the goods once payment is due, we shall be entitled, at the end of a reasonable period of grace, if we have set, to withdraw from the contract and demand the return of the goods already supplied. Section 323 BGB applies also for partial deliveries, or if we have assumed responsibility for delivery and shipped the goods to the person, company or facility nominated to execute the shipment. This shall apply to any set-off of claims arising from the contract and the demand for the return of the goods. The customer can set-off only with legally confirmed or undisputed counterclaims.

7. Customer-specific specifications/project fabrications

Customer-specific fabrications require lending information on design, quantity etc. in written form. In case of omission, the purchase price falls due for net payment within 30 days of the invoice date (without deduction of discount). Invoice amounts of below 50 EUR goods net, we must make a minimum quantity surcharge of 10 EUR for cost reasons.

8. Test-clots

Unless any other agreements have been reached, the tests fabricated for the purpose of checking the order shall remain our property in all cases, even if we have invoiced a test-cost component separately.

9. Payment

If order-stated on invoice, the purchase price falls due for net payment within the invoice date (without deduction of discount). Invoice amounts of below 50 EUR goods net, we must make a minimum quantity surcharge of 10 EUR for cost reasons.

10. Samples/returns

Samples shall be provided only against payment. If samples or models are provided, a credit note shall be issued to the subsequent order if the order value is 125 EUR net minimum. Goods can be returned only by agreement, although custom fabrications are excluded from such return.

In the case of returns for which we are not responsible (e.g. incorrect order), we shall charge a processing fee of 10%, the minimum amount, however, being 7.50 EUR.

11. Retention of title

The goods shall remain our property unless full payment of all claims and/or until full performance of all claims arising from the order on our side has been made. This shall also apply to the case of invoicing outstanding invoices, even as well as balancing the account and the recognition thereof does not affect the nature of the customer's obligations to us. The customer is entitled to sell or retake the retained goods during the ordinary course of business. However, the customer is not permitted to pledge these goods for security. It shall assign its claim on account of the selling of the retained goods to us in advance. The customer shall be entitled to sell or retake the goods to the extent that it has fulfilled its obligations towards us.

At our request, the customer shall be obliged to state third-party debtors and we shall be entitled to report this to the assignee.

12. Property rights

We reserve property rights and copyrights to all contractual documents such as drafts, drawings, calculation sheets, models or samples even for third parties without our consent. No rights to patents, utility models etc. will be handed to third parties as such patents have not yet been applied for. If third parties were to reproduce or advertise the elements we fabricate, we shall be entitled to report this and any assignment.

13. Warranty

If the customer agrees with us a particular quality of the goods, we shall base this agreement on our technical delivery specifications. If we have to deliver according to customer drawings, specifications, samples etc., the customer shall assume the risk for suitability for the intended purpose. If, after the contract is concluded, the scope of delivery has been extended, the customer shall bear the costs for this. The customer shall bear the risk for the transport of the goods to the place named on the delivery note.

14. Place of fulfilment

The place of service for all obligations ensuing from this contractual relationship is D-70734 Fellbach. The place of jurisdiction for all legal disputes ensuing from the contractual relationship is the court responsible for the headquarters of Andreas Maier GmbH & Co. KG.

15. Severability clause

The place of jurisdiction for all legal disputes ensuing from the contractual relationship is the court responsible for the headquarters of Andreas Maier GmbH & Co. KG.

All disputes ensuing from the contract regarding the validity of the contract and/or the contents and validity of the contract are subject to arbitration in accordance with the Court of Arbitration Ordinance of the German Committee for Arbitration Court Procedures or the Conciliation and Arbitration Arrangement of the International Chamber of Commerce, recourse to ordinary courts of law being excluded. The legal governing process, however, remains permissible. German law shall govern (SGB and HGB). The application of the UN Convention on Contracts for the International Sale of Goods (CISG) is ruled out.

16. Severability clause

If individual provisions become legally invalid, the remaining provisions shall not be affected. The legally invalid provision shall be replaced by those that come closest in economic effect, and which clearly reflect the economic purpose of the contract with reasonable consideration for the mutual interests. This abolition of these Terms of Sale, Delivery and Payment renders all previous versions invalid. This does not apply for any contracts concluded prior to this announcement.
## Functional Principle of the Wireless Sensoring Systems

4 - 13

## The Gateway

14

## Sender-Units

15 - 16

## Sensors

17 - 21

## Accessories

22 - 23
AMF Wireless Sensing Systems – Wireless Communication Technology for Your Production

Data query in a production environment is the basis for process reliability. However, it is not always easy to wire fixtures and to manage the data from the engine room. The AMF Wireless sensing systems establish wireless communication here. Different states of sensors connected directly to a Sender-Unit can be detected here. This transmits the signal wirelessly to the gateway by means of Bluetooth Low Energy 4.0. The signals are received and displayed here.
The hydraulic clamping fixture is provided with two queries. The workpiece location pad is queried via a microswitch A with a connected Sender-Unit. The wireless pressure switch B monitors the pressure of the clamping fixture hydraulic clamping circuit.

2 The gateway can simply be attached to a top-hat rail in the electrical box and connected to the machine control.

3 The antenna of the gateway can be placed outside the electrical box and positioned near the Sender-Unit by using the antenna extension with magnetic base.
With the reed switch the position of the cylinder piston is scanned in the clamping element and transmitted by the connected Sender-Unit wirelessly to the gateway.

Integrated support control by built-in microswitches in the fixture. Once the workpiece is mounted, the release is transmitted wirelessly to the gateway and machine control via the Sender-Unit.
Hydraulic pressure monitoring by means of the integrated wireless pressure switch. This performs an opening check of the zero point clamping station.

A WLAN router can be connected optionally to access the web-based user interface of the gateway via a tablet to ensure easier commissioning.
In the milling and turning process, cables are often in the way due to the changing positioning of the rotary table or do not offer the necessary flexibility in order to follow the movements of the fixture. By using the AMF Wireless sensoring systems, the workpiece support can be queried easily and with process reliability and without laboriously laying cables.

Sender-Units with mechanical microswitches can be mounted directly on the fixture and detect the position of the workpiece.
EXTERNAL SETUP
PROCESS-RELIABILITY
WITH THE AMF WIRELESS SENSORING SYSTEMS

Extremely heavy and bulky components are ideally set up externally and then clamped in the processing machine. The early detection of incorrect component support or stress saves a great deal of setup time. This query can already be carried out at the set-up station and not already in the machine by means of radio transmission.
SETUP OF SHUTTLE TABLES
EASY CHECKING OF WORKPIECE AND FIXTURE

A shuttle table offers the advantage of setting up the next job beforehand during the processing of a component and then changing the table directly in the engine room. The laying of a cable due to changing the tables means additional setup work. The built-in Wireless sensoring systems on the fixture makes it easier for the employee to check the correct workpiece location pad and position during the manual setup and subsequent processing.

1. Highly accurate microswitches can be used to query whether a workpiece is clamped on the support. The sender-unit connected to the sensor transmits the signal from the machine room.

2. The built-in wireless pressure switch monitors the hydraulic clamping pressure.
UP TO EIGHT SIGNALS ARE PROCESSED BY THE GATEWAY

YOU DECIDE HOW THE SIGNAL SHOULD BE PROCESSED.

DIRECT (electrician)

EXTERNAL CONTROL (PLC programmer)

Machine control

NC CONTROL (machine programmer)

PLC CONTROL (machine manufacturer)

YOU DECIDE HOW THE SIGNAL SHOULD BE DISPLAYED OR PROCESSED – HERE ARE A FEW PRACTICAL EXAMPLES

LAMP SIMPLY ON/OFF

LAMP WITH LOGIC

MESSAGE ON EXTERNAL DISPLAY

MACHINE START RELEASE

USER-DEFINED STOP

MESSAGE ON CONTROL DISPLAY

VISUALLY DISPLAYED ON THE GATEWAY:
- output switched
- battery warning
- sensor out of range

ANDREAS MAIER GmbH & Co. KG • Phone: +49 711 5766-0 • Web: www.amf.de

Subject to technical alterations.
No. 5010G
Gateway

Application:
The gateway is a receiver for the incoming radio signals of a transmitter (Sender-Unit). The signal from the gateway is monitored and visualised and can be transmitted via potential-free relay outputs.

We recommend installing the gateway inside an electrical box and positioning the antenna near the Sender-Unit, from the electrical box, using an antenna extension cable (No. 5030ZA).

The Sender-Unit is assigned explicitly to an output of the gateway. A pairing stick (No. 5030ZP) is required for the procedure. The Sender-Unit can optionally be paired (assigned) with the gateway using pushbuttons on the gateway or by the integrated web interface. The gateway has an Ethernet interface for this purpose.

Features:
- Input: up to 8 Sender-Units
- Outputs: 8 potential-free relay outputs
- Transmission protocol: Bluetooth Low Energy (BLE 4.0)
- Range of the radio signal: approx. 10 metres
- Supply voltage: 24 V DC
- Rated current: 0.2 A
- Integrated web interface
- Designed for ambient temperatures of +5 to +65 °C

Note:
Supplied with antenna as standard.
Pairing stick required for pairing the Sender-Units.
For further technical information please request the data sheet.

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Inputs wireless</th>
<th>Outputs relay</th>
<th>Ingress protection</th>
<th>Weight [g]</th>
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</thead>
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<tr>
<td>554177</td>
<td>8</td>
<td>8</td>
<td>IP20</td>
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</table>

Dimensions:

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<tr>
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<th>H1</th>
<th>L</th>
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<td>95</td>
<td>113.5</td>
<td>58</td>
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<td>107</td>
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</table>
No. 5010SUS
Sender-Unit

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Cabled input</th>
<th>Output wireless</th>
<th>Battery life up to [Years]</th>
<th>Ingress protection</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>554178</td>
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</tr>
<tr>
<td>554179</td>
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<td>1</td>
<td>5.0</td>
<td>IP67</td>
<td>132</td>
</tr>
</tbody>
</table>

Design:
The Sender-Unit is available in two versions, which vary in battery life:
- Sender-Unit (Order no. 554178): Battery life up to 1.5 years
- Sender-Unit longlife (Order no. 554179): Battery life up to 5 years

Application:
The Sender-Unit transmits a sensor signal to the gateway wirelessly. The sensor is connected to the Sender-Unit by cable. The battery condition of the Sender-Unit is monitored by the gateway and displayed visually on the gateway or web interface.

Features:
- Input: 1 cabled for power-free sensor (e.g. microswitch or reed switch)
- Output: 1 wireless to the gateway
- Transmission protocol: Bluetooth Low Energy (BLE 4.0)
- Range of the radio signal: approx. 10 metres
- Designed for ambient temperatures of +5 to +65 °C

Note:
For further technical information please request the data sheet.

Dimensions:

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<tr>
<th>Order no.</th>
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<th>dia. D1</th>
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</thead>
<tbody>
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</table>
No. 5010SUG
Sender-Unit Gripper

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Cabled input</th>
<th>Output wireless</th>
<th>Battery life up to</th>
<th>Ingress protection</th>
<th>Weight</th>
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<tbody>
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</tr>
<tr>
<td>560406</td>
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<td>1</td>
<td>1.5</td>
<td>IP67</td>
<td>58</td>
</tr>
</tbody>
</table>

**Design:**
The Sender-Unit gripper is available in two versions, which vary in input for the sensor:
- Sender-Unit gripper switch (Order no. 560408): Cabled input for an M8-round connector
- Sender-Unit gripper reed (Order no. 560406): Sender-Unit with an integrated reed switch

**Application:**
The Sender-Unit gripper is the transmitter for wireless communication between the AMF gripper (No. 1650) and the gateway (receiver). A grasped workpiece can be queried via the Sender-Unit gripper switch by means of a gripper jaw with a microswitch (Order no. 561709). The bottom or top piston position of the gripper can be detected by the Sender-Unit gripper reed.
The Sender-Unit is inserted into the T-slot of the gripper via a T-profile with a clamping screw and clamped.

**Features:**
- Output: 1 wireless to the gateway
- Transmission protocol: Bluetooth Low Energy (BLE 4.0)
- Battery life: up to 1.5 years
- Range of the radio signal: approx. 10 metres
- Designed for ambient temperatures of +5 to +65 °C

**Note:**
For further technical information please request the data sheet.
Further information on the gripper can be found in the AMF gripper catalogue.

**Dimensions:**

<table>
<thead>
<tr>
<th>Order no.</th>
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<th>H</th>
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<th>R1</th>
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<td>32.9</td>
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</tbody>
</table>

You can find more information in the current „Gripper“ product catalogue!
Wireless pressure switch

No. 5020-D01
Wireless pressure switch

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Output wireless</th>
<th>Operating pressure [bar]</th>
<th>Battery life up to [Years]</th>
<th>Ingress protection</th>
<th>Weight [g]</th>
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<tbody>
<tr>
<td>554862</td>
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<td>554799</td>
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<td>40 - 400</td>
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<td>IP67</td>
<td>1270</td>
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</table>

Design:
The wireless pressure switch is available in two versions, which vary in pressure range of the operating pressure:
- Operating pressure: 20 - 200 bar
- Operating pressure: 40 - 400 bar

Application:
The wireless pressure switch is a mechanical pressure switch with an integrated Sender-Unit. It is used for monitoring the pressure of a hydraulic clamping circuit. The switch signal on the set switching point is transmitted wirelessly to the gateway.

Features:
- Output: 1 wireless to the gateway
- Sensor type: Mechanical pressure switch
- Transmission protocol: Bluetooth Low Energy (BLE 4.0)
- Battery life: up to 1.5 years
- Range of the radio signal: approx. 10 metres
- Designed for ambient temperatures of +5 to +65 °C

Note:
Other pressure ranges available on request.
For further technical information please request the data sheet.

Dimensions:

<table>
<thead>
<tr>
<th>Order no.</th>
<th>B</th>
<th>dia. D</th>
<th>dia. D1</th>
<th>dia. D2</th>
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<th>H</th>
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<tr>
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<td>82</td>
<td>20</td>
<td>42</td>
<td>90</td>
<td>53</td>
<td>7</td>
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Recommendations
No. 6982-02-01 Connection Plate, Order no. 60780,
Catalogue „Hydraulic Clamping Systems“

Subject to technical alterations.
No. 5020-R01
Reed switch R01
Plastic housing, IP 67

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Slot</th>
<th>Length of connecting cable [mm]</th>
<th>Ingress protection</th>
<th>Weight [g]</th>
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<tbody>
<tr>
<td>554800</td>
<td>T8</td>
<td>300</td>
<td>IP67</td>
<td>50</td>
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</tbody>
</table>

Application:
The reed switch is suitable for use on cylinders with a T-slot for querying the piston position. The switch detects a ring magnet in the cylinder piston when this passes the position of the sensor. The reed switch is connected to the Sender-Unit by a cable. Can be used on all standard cylinders made of non-magnetizable material.

Features:
- Housing: Plastic
- Function: N/O contact
- Installation: insert and clamp in T-slot
- The IP67-certified switch is water, dust and moisture-resistant
- The connector (M8) is pre-assembled ready for connection for the AMF Sender-Unit
- Designed for ambient temperatures of -25 to +70°C

Note:
For further technical information please request the data sheet.

Dimensions:

<table>
<thead>
<tr>
<th>Order no.</th>
<th>A</th>
<th>B</th>
<th>dia. D</th>
<th>G</th>
<th>L</th>
<th>L1</th>
<th>L2</th>
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<tr>
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<td>5</td>
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<td>M8x1</td>
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<td>300</td>
<td>30,5</td>
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</table>
**Order no.**

<table>
<thead>
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<th>Order no.</th>
<th>Stroke [mm]</th>
<th>Length of connecting cable [mm]</th>
<th>Ingress protection</th>
<th>Weight [g]</th>
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<td>554796</td>
<td>2.7</td>
<td>500</td>
<td>IP67</td>
<td>70</td>
</tr>
</tbody>
</table>

**Application:**
Compact microswitch for querying different states of a clamping device or component, such as support control, position monitoring or clamping control. The microswitch is connected to the Sender-Unit by a cable.

**Features:**
- Housing: Plastic
- Function: N/O contact with mechanical contact
- The IP67-certified switch is water, dust and moisture-resistant
- The connector (M8) is pre-assembled ready for connection for the AMF Sender-Unit
- The stroke is a max. of 2.7 mm with an operating force of 1.2 N
- Designed for ambient temperatures of 0 to +80 °C

**Note:**
Different lengths of the connection cable are available on request. For further technical information please request the data sheet.

**Dimensions:**

<table>
<thead>
<tr>
<th></th>
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<td>500</td>
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</tbody>
</table>

Subject to technical alterations.
**Microswitch M02**

Stainless steel housing, IP 44, precise query, axial and lateral approach direction

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Precision [mm]</th>
<th>Stroke [mm]</th>
<th>Length of connecting cable [mm]</th>
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<th>Weight [g]</th>
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<td>0.5</td>
<td>500</td>
<td>IP44</td>
<td>130</td>
</tr>
</tbody>
</table>

**Application:**
Compact microswitch for querying different states of a clamping device or component, such as support control, position monitoring or clamping control, with high accuracy. The microswitch is connected to the Sender-Unit by a cable.

**Features:**
- Housing: Stainless steel, hardened stop surfaces
- Function: N/O contact with mechanical contact
- Installation: M10x0.75, flush mountable
- The connector (M8) is pre-assembled ready for connection for the AMF Sender-Unit
- The stroke is a max. of 0.5 mm with an operating force of 0.8 N
- The static load of the probe tip (ball made of stainless steel) is a max. of 1500 N
- Designed for ambient temperatures of 0 to +80 °C

**Note:**
Two M10x0.75 fastening nuts are supplied as standard.
Different lengths of the connection cable are available on request.
For further technical information please request the data sheet.

**Dimensions:**

<table>
<thead>
<tr>
<th>Order no.</th>
<th>B</th>
<th>dia. D</th>
<th>G</th>
<th>G1</th>
<th>L</th>
<th>L1</th>
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</table>
No. 5020-M03
Microswitch M03
Stainless steel housing, IP 67, precise query, axial and lateral approach direction

<table>
<thead>
<tr>
<th>Order no.</th>
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<td>0,01</td>
<td>0,3</td>
<td>150</td>
<td>IP67</td>
<td>75</td>
</tr>
<tr>
<td>556265</td>
<td>0,01</td>
<td>0,3</td>
<td>500</td>
<td>IP67</td>
<td>130</td>
</tr>
</tbody>
</table>

**Application:**
Compact microswitch for querying different states of a clamping device or component, such as support control, position monitoring or clamping control, with high accuracy. The microswitch is connected to the Sender-Unit by a cable.

**Features:**
- Housing: Stainless steel, hardened stop surfaces
- Function: N/O contact with mechanical contact
- Installation: M10x0.75, flush mountable
- The connector (M8) is pre-assembled ready for connection for the AMF Sender-Unit
- The IP67-certified switch is water, dust and moisture-resistant
- The stroke is a max. of 0.3 mm with an operating force of 1.0 N
- The static load of the probe tip (stainless steel) is a max. of 3000 N
- Designed for ambient temperatures of 0 to +80 °C

**Note:**
Two M10x0.75 fastening nuts are supplied as standard. Different lengths of the connection cable are available on request. For further technical information please request the data sheet.

**Dimensions:**

<table>
<thead>
<tr>
<th>Order no.</th>
<th>B</th>
<th>dia. D</th>
<th>dia. D1</th>
<th>G</th>
<th>G1</th>
<th>L</th>
<th>L1</th>
<th>L2</th>
</tr>
</thead>
<tbody>
<tr>
<td>556264</td>
<td>3</td>
<td>11,5</td>
<td>9</td>
<td>M8x1</td>
<td>M10</td>
<td>211</td>
<td>150</td>
<td>19,5</td>
</tr>
<tr>
<td>556265</td>
<td>3</td>
<td>11,5</td>
<td>9</td>
<td>M8x1</td>
<td>M10</td>
<td>561</td>
<td>500</td>
<td>19,5</td>
</tr>
</tbody>
</table>
No. 5030ZA
Antenna extension

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Magnetic base</th>
<th>Length of connecting cable [m]</th>
<th>Connection</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>554803</td>
<td>●</td>
<td>1.5</td>
<td>RP-SMA</td>
<td>110</td>
</tr>
<tr>
<td>559716</td>
<td>-</td>
<td>3.0</td>
<td>RP-SMA</td>
<td>103</td>
</tr>
<tr>
<td>559717</td>
<td>-</td>
<td>5.0</td>
<td>RP-SMA</td>
<td>173</td>
</tr>
<tr>
<td>558654</td>
<td>-</td>
<td>10.0</td>
<td>RP-SMA</td>
<td>314</td>
</tr>
</tbody>
</table>

Application:
The antenna extension is used to position the antenna outside the electrical box near the Sender-Unit. This allows any possible interruption by the electrical box housing to be prevented. We recommend positioning the antenna as close as possible to the Sender-Unit in order to obtain good signal strength.

Features:
- Antenna extension with a magnetic base has a connection cable with a length of 1.5 m
- Additional antenna extensions without a magnetic base are available with a length of 3 m, 5 m, and 10 m
- Connector: straight
**Accessories**

**No. 5030ZB**

Spare battery and flat seal

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Batteries [pcs]</th>
<th>Seal [pcs]</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>554860</td>
<td>1</td>
<td>1</td>
<td>15</td>
</tr>
<tr>
<td>554861</td>
<td>2</td>
<td>1</td>
<td>30</td>
</tr>
<tr>
<td>561746</td>
<td>1</td>
<td>1</td>
<td>15</td>
</tr>
</tbody>
</table>

**Design:**

Order no. 554860: 1 button cell and 1 flat seal for Sender-Unit (Order no. 554178) and wireless pressure switch (Order no. 554862 and 554799)

Order no. 554861: 2 button cells and 1 flat seal for longlife Sender-Unit (Order no. 554179)

Order no. 561746: 1 button cell and 1 flat seal for Sender-Unit gripper switch (Order no. 560408) and Sender-Unit gripper reed (Order no. 560406)

**Application:**

Spare battery for the Sender-Unit. During a battery change, the flat seal must be replaced in order to further ensure the protection class IP 67.

---

**No. 5030ZP**

Pairing stick

<table>
<thead>
<tr>
<th>Order no.</th>
<th>Length [mm]</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>554802</td>
<td>42</td>
<td>25</td>
</tr>
</tbody>
</table>

**Application:**

The pairing mode is activated on the Sender-Unit using the pairing stick. A brief touch on the lateral contact area is sufficient to do this.

---

**No. 5030ZR**

WLAN router

<table>
<thead>
<tr>
<th>Order no.</th>
<th>L x W x H</th>
<th>Weight [g]</th>
</tr>
</thead>
<tbody>
<tr>
<td>554801</td>
<td>57 x 57 x 18</td>
<td>18</td>
</tr>
</tbody>
</table>

**Application:**

The WLAN-Router is used to integrate a gateway into a WLAN network. For this purpose, the router is connected to the gateway by cable. The web interface of the gateway can then be accessed via a WLAN-capable device.

**Features:**

- TP-Link WLAN router up to 300 Mbit/s
- WLAN frequency: 2.4 GHz
- Interfaces: LAN (10/100 Mbit/s) and micro USB

**Note:**

We recommend positioning the WLAN router outside the electrical box.
WE GENERATE EXCITEMENT.

Since the foundation of the company in 1890 until today the
history goals has remained the same: the highest quality in products
and services. Nevertheless, the circumstances, tasks and
challenges have changed constantly. By focusing on our core
areas of expertise, we have long set new standards for innovative
technology-driven engineering — driven by our own development, the
greatest possible flexibility and passion for individual solutions.

All this is only possible with committed and satisfied employees.
Respectful interaction with others, personal development
and measures for each individual are therefore values that matter to us.

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In the following principles that we follow in our organisation
and which always apply.

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Even if the product you need does not exist yet, we will find
the right solution with you: from special designs to new developments,
everything is possible.

WARRANTY

If, despite our high quality standard, there is a complaint, it shall
always be rectified in the shortest possible time.

HIGHEST QUALITY STANDARDS

Careful manufacturing based on tradition since 1890, and
naturally with a modern quality management system according to ISO 9001
for many years.

SHORT DELIVERY TIME

With over 5,000 articles in our warehouse, we can expect your order to be
delivered on the same day.

COMPETENT SERVICE FROM EXPERTS

Your local sales partner or the specialists in our team will find the right
solution for every task.

MADE IN GERMANY

Our products are developed and manufactured exclusively
by our employees in Germany.

These Terms of Payment apply for companies, legal entities governed by public law and
public law corporate bodies. These Terms of Payment and conditions are applied exclusively on
the basis of the following conditions. Any deviating purchasing conditions of the customer
are not accepted. Deviating purchasing conditions or supplements to the contract through acceptance
of the order. By placing the order and accepting the goods we deliver, the customer
accepts all our terms and conditions.

1. Offer and contractual conclusion

All our offers are always subject to change without notice unless otherwise explicitly agreed
upon. Our offers and quotations are based on the latest version of our catalogue.

Dimension and weight values, as well as illustrations, drawings and data, are non-
binding and can be changed at any time. Deviations cannot be held
out or do not justify any complaint claims against us. Orders are considered accepted only when confirmed by us in writing. If, for
example, in the case of orders below EUR 20,000.00 net, we may make a minimum quantity
surcharge of EUR 10.00 for cost reasons.

2. Prices

The prices are in EUR, ex-works, excluding VAT, freight and insurance.
Unless otherwise agreed our list prices valid on the day of delivery shall
apply. For goods sold below EUR 20,000.00 net we must make a minimum quantity
surcharge of EUR 10.00 for cost reasons.

3. Tool costs

Unless any other agreements have been reached, the tools fabricated for the purpose of
executing the order shall remain our property in all cases, even if we have invoiced a tool cost for customer use.

4. Payment

Unless stated otherwise in the offer, the purchase price falls due for net payment within
30 days of the invoice date (without deduction of discount). Invoice amounts of below EUR 30,000.00 are due for payment immediate.

In case of payment default, we shall be entitled to charge default interest. The amount
must correspond to our interest cost for correct account credits at our main bank, the
minimum however being 8 percentage points above the relevant base interest rate applied by the European Central Bank. Moreover, in case of default our written notice to the customer, we shall be entitled to cease to fulfil our obligations until payments are received.

5. No set-off

The customer can set-off only with legally confirmed or undisputed counterclaims.

6. Right of withdrawal in case of a wrong acceptance or payment and insolvency

If the customer fails to accept the goods in due time, we shall be entitled to sell a reasonable
portion of the goods and use the profit for payment of our claim.

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