MOBA
DUPLEX SONIC METER
DSM-500
The ultra sonic measurement DSM-500 measures the reach out length of the struts underneath the truck. It sends the data to the superior control unit. Therefore, the information of the current strut width of each strut is for the machine certain available. The maximum groove of the lifter, mobile crane or something like these are warranted.

- Measuring range: 0.05m - 5m
- Resolution: 1mm
- Precision: 2% of the final value
- Storage temperature: -40°C ... +80°C
- Operating temperature: -20°C ... +70°C
- Ingress protection: IP67

MOBA
DUPLEX SONIC METER
DSM-500

SAFETY MEASUREMENT on request of the parent machine control

The DSM-500 checks by itselfs, whether 8 double (16) measurements are corresponding or not. The system sends the safety value and the status to the parent machine control. In this operating mode the DSM-500 requires EN ISO 13849-1 PL(d).

DYNAMIC MEASUREMENT
Every sensor calculates its own length and transfers it to the parent controller of the machine.

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<table>
<thead>
<tr>
<th>MOBA DSM-500</th>
<th>CANopen</th>
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<table>
<thead>
<tr>
<th>Voltage range</th>
<th>10 ... 32 V DC</th>
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<tbody>
<tr>
<td>Current consumption</td>
<td>&lt; 150 mA</td>
</tr>
<tr>
<td>Size (L x W x H)</td>
<td>99mm x 71mm x 68mm</td>
</tr>
<tr>
<td>Weight</td>
<td>Master 391g / Slave 338g</td>
</tr>
<tr>
<td>CAN interfaces</td>
<td>125 kBit/sec / 250 kBit/sec / 500 kBit/sec</td>
</tr>
</tbody>
</table>
The DSM-500 SYSTEM CONSISTS OF

Master sensor
Temperature sensor
Plug M12 (5-pin) external CAN
Connector M12 (8-pole) internal CAN

Slave sensor
Temperatur sensor
Connector M12 (8-pole) internal CAN

ADVANTAGES
» Contactless measuring system
» Useable for different applications
» PL(d) application / TÜV approval
» Temperature stability for high accuracy
» Flexible extension modules
» Easy integration and service handling
» CANopen
» No opportunity for an enduser to manipulate the system

WIRING CONCEPT

The Master is mounted at a fix point, the Slave is mounted at an external point. Both sensors are connected with a M12 8-pole cable. The Node ID for each sensor pair can either be set by coding plug or by LSS service from CANopen. The measured value of the Slave sensor passes the Master sensor to the external parent CAN bus machine controller.

The best wiring to the parent machine control is ring wiring. With a M12 5-pole T-connector it is possible to install several sensors with CAN inout functions in a CAN bus. Redundant cables are not necessary. This opportunity saves you time and money.
MOBA GROUP

The MOBA GROUP is a leading global player in the world of mobile automation. Close collaborations between the headquarter in Limburg an der Lahn and subsidiaries all over Europe, Asia, North and South America create new perspectives for recent and future developments.

Superior technical know-how and more than 40 years of experience combined with an international dealer network guarantee a premium support – worldwide. INSPIRING MOBILE AUTOMATION – this is what the MOBA GROUP stands for.