MOBA

DUPLEX SONIC METER

DSM-500

MOBA®
MOBILE AUTOMATION

The ultra sonic measurement **DSM-500** measures the reach out length of the struts underneath the truck. It sends the datas to the superior control unit. Therefor the informations 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 warrented.

» 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

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SAFETY MEASUREMENT on request of the parent machine control

The DSM-500 checks by itselfs, wether 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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DSM-500

CANopen

Voltage range	10 ... 32 V DC
Current consumption	< 150 mA
Size (L x W x H)	99m x 71mm x 68mm
Weight	Master 391g / Slave 338g
CAN interfaces	125 kBit/sec 250 kBit/sec 500 kBit/sec

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

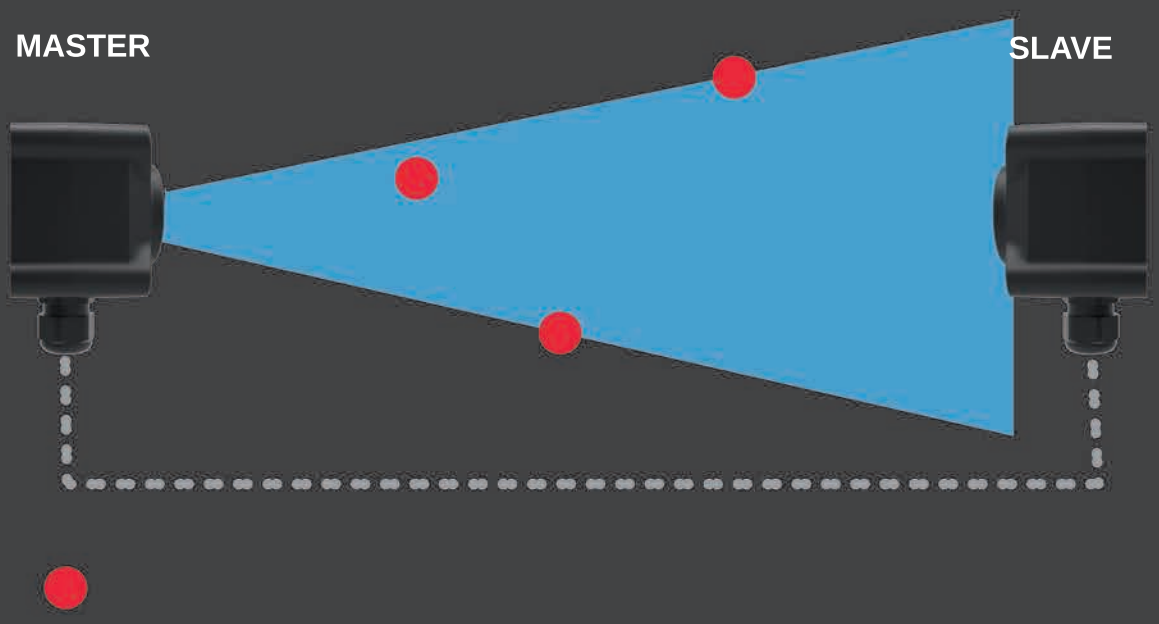
ADVANTAGES

» 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 in/out functions in a CAN bus. Redundant cables are not necessary.
This opportunity saves you time and money.



ONE GROUP - ONE RESPONSIBILITY

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.

MOBA GERMANY
65555 Limburg / Deutschland
Tel.: +49 6431 9577-0
E-mail: sales@moba.de

MOBA ITALY
37069 Villafranca die Verona / Italien
Tel.: +39 045 630-0761
E-mail: mobaitalia@moba.it

MOBA FRANCE
77500 Chelles / Frankreich
Tel.: +33 (0) 1 64 26 61 90
E-mail: infos@mobafrance.com

MOBA UK
HP178LJ Haddanham / Großbritannien
Tel.: +44 184 429 3220
E-mail: ilewis@moba.de

MOBA SPAIN
08211 Barcelona / Spanien
Tel.: +34 93 715 87 93
E-mail: moba-ise@moba-ise.com

MOBA USA
Fayetteville GA 30214 / USA
Tel.: +1 678 8179646
E-mail: mobacorp@moba.de

MOBA BRASIL
Belo Horizonte - MG / Brasilien
Tel.: +55 31 7513-4959
E-mail: mobadobrasil@moba.de

NOVATRON FINLAND
33960 Pirkkala / Finnland
Tel.: +358 (0) 3 357 26 00
E-mail: sales@novatron.fi

NOVATRON SWEDEN
192 79 Sollentuna / Schweden
Tel.: +46 (0) 8 660 52 00
E-mail: sverige@novatron.eu

MOBA INDIA
Gujarat - 382044 / Indien
Tel.: +91 989 855 6608
E-mail: sdesai@moba.de

MOBA CHINA
116600 Dalian / China
Tel.: +86 411 39269311
E-mail: ysun@moba.de

www.moba.de
www.mobacommunity.de

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