

MAGPOWER

A MAXCESS BRAND



DLCA NET



DLCA NET-SLIM



DLCA NET-IP65

The DLCA NET is a new load cell amplifier with two communication ports and built-in networking capabilities for EtherNet/IP, Profinet, Modbus-TCP or EtherCAT.

The DLCA NET transmits calibrated tension values over the communications to a PLC, HMI or drive to display or control web tension.

Two sensor inputs for load cells allow the tension readout in a single tension zone with separate left and right load cells (single channel version) or to monitor web tension in two different tension zones (dual channel version).

General Specifications

Supply Power

24 VDC, + / - 10 %, 250 mA

Inputs

two separate sensor inputs for load cells with strain gages

Load Cell Excitation

5 or 7.5 VDC, max. 200 mA

Load Cell Sensitivity

1.5 mV / V to 100 mV / V,
max. 500 mV

Tension Sampling Rate

2 ms (500 Hz)

ADC converter

24 bit

Adjustable Filtering

0.1 to 100 Hz;
or can be turned off for raw data
output of 500 Hz

Ethernet

2 ports (10/100 Mbps)

Communication Protocols

EtherNet/IP, Profinet, Modbus/TCP,
EtherCAT, embedded web server
page

Alarms

Two programmable alarms

Ready to Run Alarm

Indicates no errors, ready to operate

Temperature Range

Operating: 0 to 60 °C
Storage: - 20 to 80 °C

Gain

32 : 1

Tare Adjustment

90 % of load cell rating

Software

PC software for tension data
recording and configuration backup

Certifications

CE (EN61326-1)
TÜV (UL61010-1)
CAN/CSA-C22.2# 61010-1
CB to IEC 61010-1
RoHS

Key Features

- Available in 3 mounting options:
DLCA NET, DLCA NET-Slim,
DLCA NET-IP65
- Single and dual channel versions
- Two programmable alarms and filter
- Embedded web server page for
communication with usual Web-
Browser
- Rockwell AOP (add on profile)
- DLR (Device Level Ring)
- PTPv2 und PTPv1 time stamping

DLCA NET

- DIN-Rail mounting
- Relay output that signals "ready
to run"
- Setup and calibration by four push
buttons and six-digit display on unit
- 0 - 10 VDC and 4 - 20 mA analog
outputs for left, right and total
tensions

DLCA NET-Slim

- DIN-Rail mounting

DLCA NET-IP65

- IP65 rated
- Mounting in the machine



Model	Part Number	Description
DLCA NET1	M444306	single tension zone with over communications EtherNet/IP, Profinet, Modbus/TCP
DLCA NET2	M444307	two tension zones with over communications EtherNet/IP, Profinet, Modbus/TCP
DLCA NET1 ECAT	M450702	single tension zone with EtherCAT only
DLCA NET2 ECAT	M450703	two tension zones with EtherCAT only
ENETCBLRJ45RJ45-XX-M	XX = cable length [m]	communications interconnect cable with RJ45 connectors on each side
ENETCBLM12RJ45-XX-M	XX = cable length [m]	communications interconnect cable with M12 and RJ45 connectors.

ADDITIONAL SPECIFICATIONS

Product Name

DLCA NET

Display

6 digit, 7-segment display

Enclosure

IP20

Mounting

DIN 35 Rail

Digital Input (re-zero)g

24 VDC max.

5 VDC or 24 VDC, selectable threshold

Outputs

Analog Outputs

0 to 10 VDC, min. 2 k Ω load
4 to 20 mA, max. 450 Ω load

Reference Meter Output

0 to 1 mA, max. 1 k Ω load or
0 to 10 VDC

Alarm Output

30 VDC max., 0.4 A max.

Notes

Following LED's available on unit for:

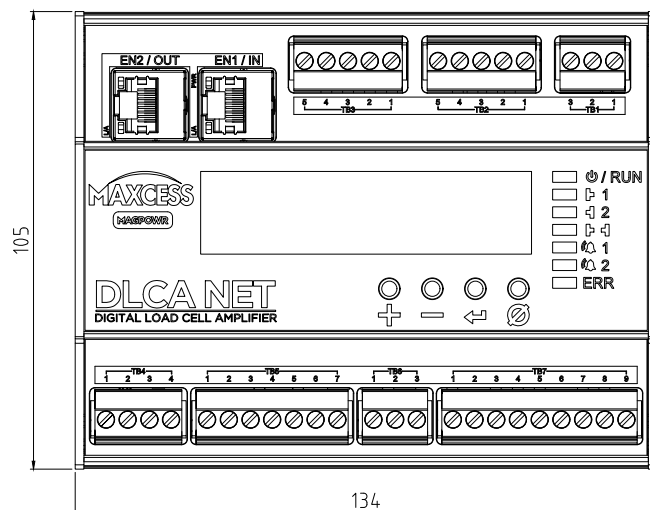
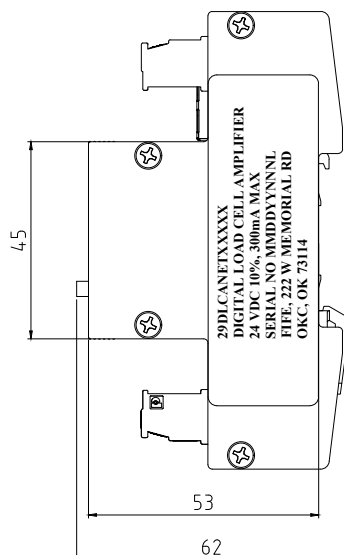
- Power/ready to,
- Left tension display
- Right tension display,
- Total tension display,
- Alarm 1,
- Alarm 2,
- Error

Setup and calibration by

- display and four push buttons on unit,
- web server page and computer or
- connected interface device over communications

DIMENSIONS

Dimensions shown in mm





Model	Part Number	Description
DLCA NET-SLIM1	M444308	single tension zone with over communications EtherNet/IP, Profinet, Modbus/TCP
DLCA NET-SLIM2	M444309	two tension zones with over communications EtherNet/IP, Profinet, Modbus/TCP
DLCA NET-SLIM1 ECAT	M448160	single tension zone with EtherCAT only
DLCA NET-SLIM2 ECAT	M450704	two tension zones with EtherCAT only
ENETCBLRJ45RJ45-XX-M	XX = cable length [m]	communications interconnect cable with RJ45 connectors on each side
ENETCBLM12RJ45-XX-M	XX = cable length [m]	communications interconnect cable with M12 and RJ45 connectors.

ADDITIONAL SPECIFICATIONS

Product Name

DLCA NET-SLIM

Enclosure

IP20

Mounting

DIN 35 Rail

Outputs

All outputs and alarms are transmitted over communications.

LED indicators:

- Power/ready to run
- Error indicators

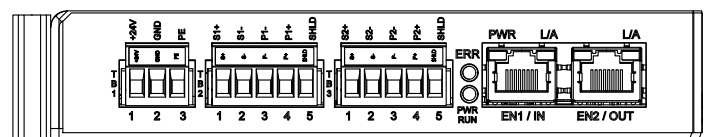
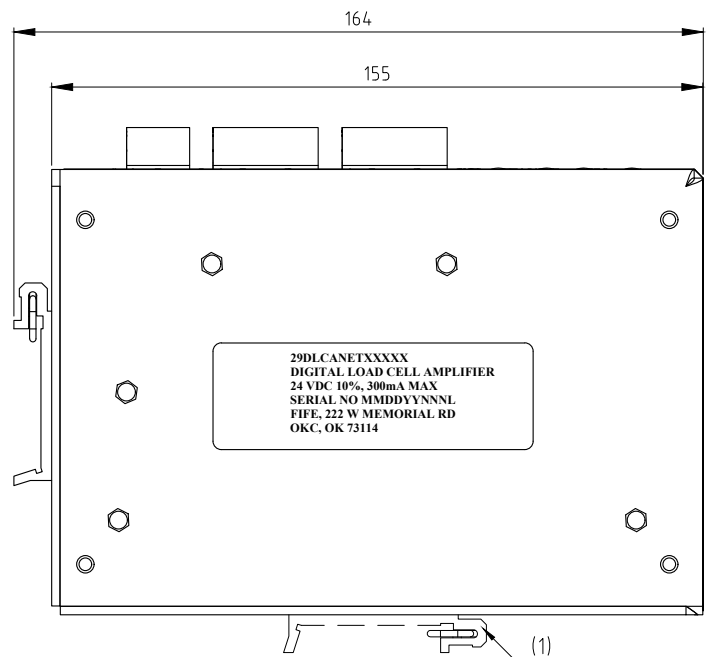
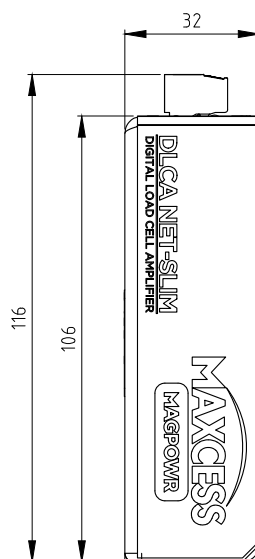
Notes

Setup and calibration by:

- web server page and computer or
- connected interface device over communications

DIMENSIONS

Dimensions shown in mm



(1) secondary mounting clip



Model	Part Number	Description
DLCA NET-IP651	M443599	single tension zone with over communications EtherNet/IP, Profinet, Modbus/TCP
DLCA NET-IP652	M444305	two tension zones with over communications EtherNet/IP, Profinet, Modbus/TCP
DLCA NET-IP651 ECAT	M450705	single tension zone with EtherCAT only
DLCA NET-IP652 ECAT	M450709	two tension zones with EtherCAT only
IP65PWRCBL-XX-M	XX = cable length [m]	Power cable for all DLCA NET-IP65 versions (required for operation of the DLCA NET-IP65)
IP65LCCBL-XX-M	XX = cable length [m]	Load Cell cable for all DLCA NET-IP65 versions
ENETCBLM12M12-XX-M	XX = cable length [m]	communications interconnect cable with RJ45 connectors on each side
ENETCBLM12RJ45-XX-M	XX = cable length [m]	communications interconnect cable with M12 and RJ45 connectors.

ADDITIONAL SPECIFICATIONS

Product Name

DLCA NET-IP65

Enclosure

IP65

Mounting

Wall Mount Slots

Outputs

All outputs and alarms are transmitted over communications.

LED indicators:

- Power/ready to run
- Error indicators

Notes

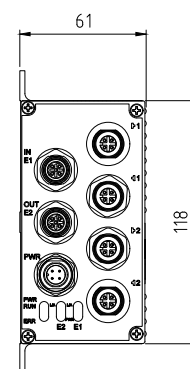
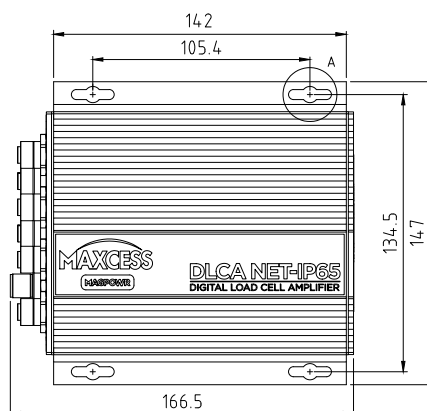
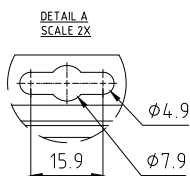
Setup and calibration by:

- web server page and computer or
- connected interface device over communications

Power and load cell connections through IP65 cables (see table above).

DIMENSIONS

Dimensions shown in mm



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