I-MOTION NDB-6

KINETIC ENTERTAINMENT TECHNOLOGIES

MOVEKET I-MOTION NDB-6 network distributor conforming to DIN EN 60204-32,
DIN 61508 / SIL1 for Motion Power Controllers MPC 4ID8 / MPC 4IC1 / V-MOTION conforming to DGUV V54 (BGV D8), DGUV V17 (BGV C1)

C1

Active network distributor for the transmission and synchronization of data, run enable and emergency stop signals between two show or system controllers: I-MOTION Basic, Basic-S, Basic-C, Expert-T I to III as well as MRC-ID, MRC-ID 24, MRC-ID 48 and the Motion Power Controllers of the series MPC I and V-MOTION. Star network topology with up to three linked network distribution levels.

The distributors receive their electrical power from the Motion Power Controller. The registration and activation incl. self-test of the individual controller inputs is performed in the course of an automatic checking routine followed by the enabling and registration of the show controllers. Bidirectional (duplex) transmission of operating, drive and safety parameters. automated network system configuration: the first network controller in the network is recognized and configured as the master; subsequent network distributors are automatically configured with the slave function. The transmission of the run enable and emergency circuits from the controllers to the master is performed in each case on separate control lines. The data transmission between the network distributors and the Motion Power Controllers exhibits diverse redundancy by means of Ethernet and CAN-Bus, whereby the master network distributor on the CAN-Bus side generates the real-time synchronicity and run enabling for the subsequent slaves. The maximum distance between network components is 50 m.

Network systems based on an NDB-6 topology correspond to Stop Category 0; however, in combination with an NMB-series network distributor in a master configuration, they can also be used for Stop Category 1 / EN 61508 SIL 3 applications.

Technical specifications:

- Ethernet 100 m/bit signal transmission
- CAN-Bus safety bus
- run-enable (‚deadman') from two controllers to the first NDB-6 (master) as well as emergency stop circuits in the system on separate individual lines
- backlit LCD – display of operating parameters and states
- status LEDs of the active outputs, CPU function and power (power supply)
- 1 x NDC-14 network data output
- 6 x NDC-14 network data output for Motion Power Controller or other NDBs
- robust metal housing with two handles
- M12 mounting option for truss coupler
- mounting bracket for safety cable

Technical data:

- Dimensions: 225 x 350 x 44.0 mm (W x D x H) w/o connector
- Unladen weight: 3.5 kg
- Colour: black RAL 9005

Options / Accessories:

- 19“ 1U rack-mounting kit
- MPC I-/V-Motion Power Controller
- I-Motion NMB-14, Network Master Box
- I-Motion NBB, Network Booster Box

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Subject to technical modifications and typographical errors.

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