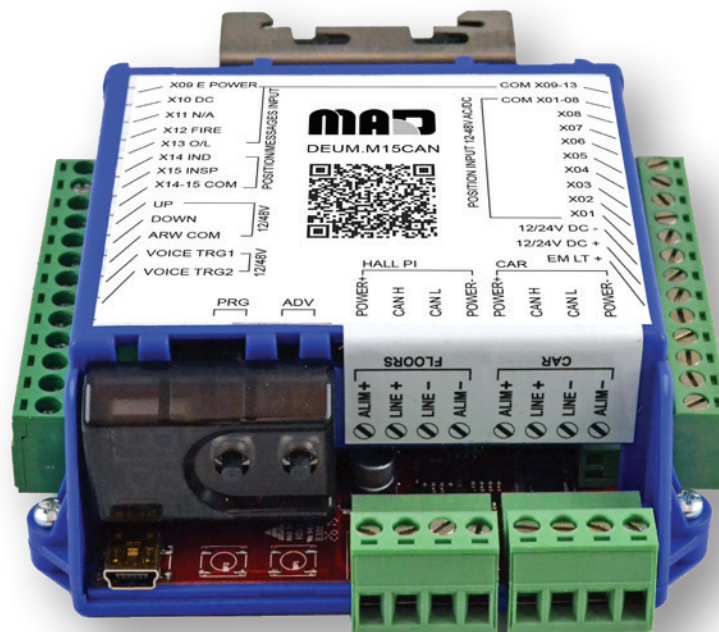




DEUM.M15CAN POSITION INDICATOR ENCODER QUICK GUIDE



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DEUM encoder is used to interface line per floor or binary PI signal from elevator controller with MAD/DMG position indicators.

BINARY SIGNAL FORMAT SETUP

WIRING GUIDE

STEP 1: DEUM encoder can either be **mounted** in **machine room** or **inside car operating panel**. If mounted in machine room, only four wires are required in traveling cable to connect DEUM encoder to PI.

STEP 2: Power up the DEUM driver by connecting 12/24VDC power to terminals **+12/24VDC** and **-12/24VDC**.

STEP 3: Connect the **binary signal common** wire from your controller to terminal **COM X01-08**.

STEP 4: Connect each **binary signal/bit** to terminals **X01** through **X07**. **X01** representing the **first binary bit**.

STEP 5: Connect your **common wire** for your special/priority messages to terminal **COM X09-13** and **COM X14-X15** on DEUM unit.

STEP 6: Connect the **special messages** signal wires to terminals **X09** through **X15**. Below are default messages:

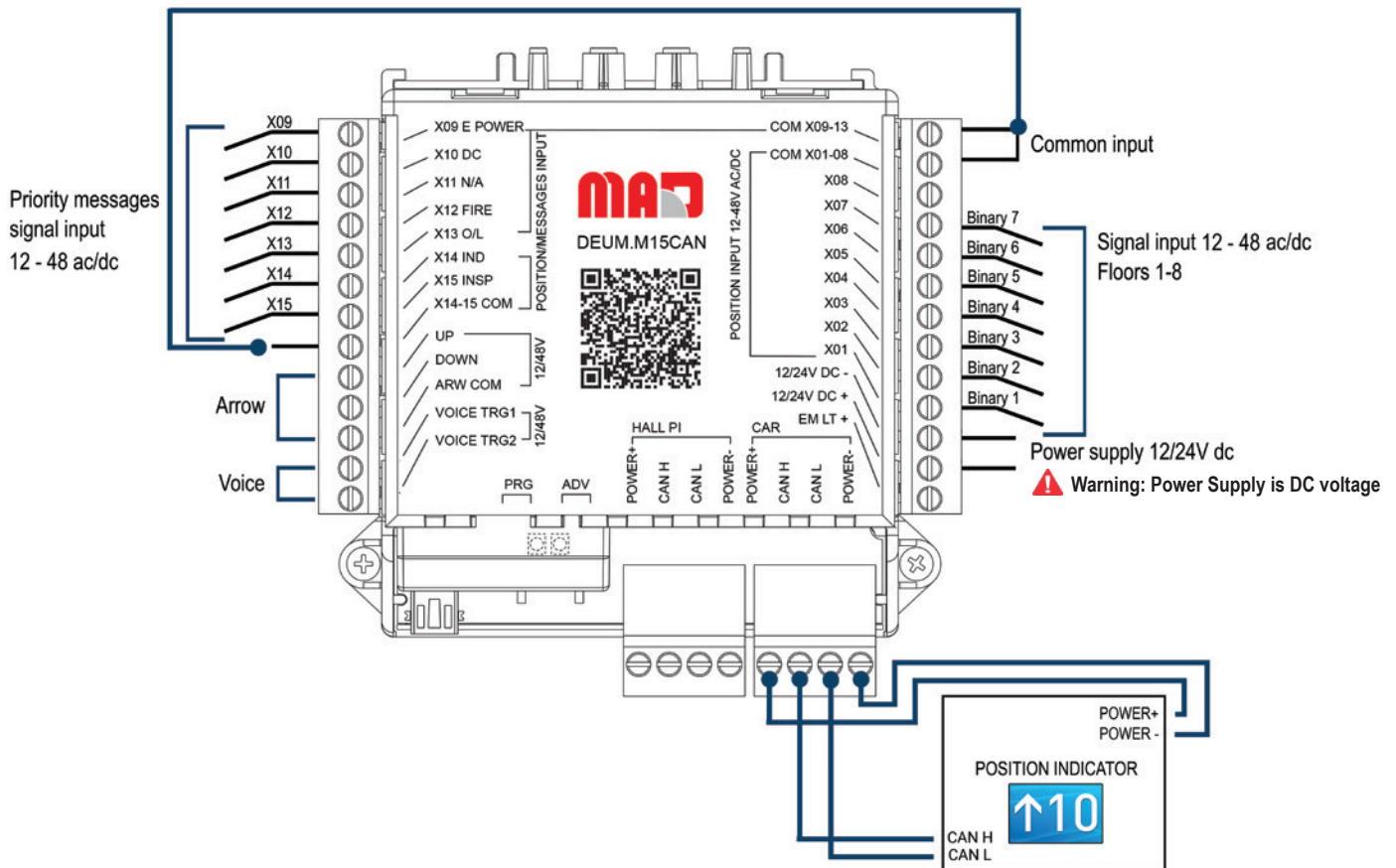
X09 — EMERGENCY POWER	X13 — OVERLOAD
X10 — DC	X14 — INDEPENDENT SERVICE
X11 — N/A	X15 — INSPECTION SERVICE
X12 — FIRE SERVICE	

STEP 7: Connect your **arrow common** to terminal **ARR_COM**, and the **arrow signal** wires to **UP** and **DOWN** as labeled.

STEP 8: To **activate voice annunciations**, supply voltage to **VOICE TRG1** and **VOICE TRG2** on the DEUM unit. Your **door limit switch** or **door zone landing switch** can be used to engage this.

STEP 9: Connect **power+** and **power-** from the opposite side of the DEUM driver to **power supply+** and **-** respectively on the **position indicator**.

STEP 10: Connect the terminals labeled **CAN H** and **CAN L** on the **DEUM** unit (**LINE+** and **LINE-** on previous version of DEUM units) to **CAN H** and **CAN L** inputs on the **position indicator**. This represents signal inputs.



LINE PER FLOOR SETUP WITH UP TO 8 FLOORS

WIRING GUIDE

STEP 1: DEUM encoder can either be **mounted** in **machine room** or **inside car operating panel**. If mounted in machine room, only four wires are required in traveling cable to connect DEUM encoder to PI.

STEP 2: Power up the DEUM driver by connecting 12/24VDC power to terminals **+12/24VDC** and **-12/24VDC**.

STEP 3: Connect the **position input common/line** common wire to terminal **"COM X01-08"**.

STEP 4: Connect each line **signal** to terminals **X01** through **X08**. **X01** representing the **lowest floor**.

STEP 5: Connect your **common wire** for your special/priority messages to terminal **COM X09-13** and **COM X14-X15** on DEUM unit.

STEP 6: Connect the **special messages** signal wires to terminals **X09** through **X15**. Below are default messages:

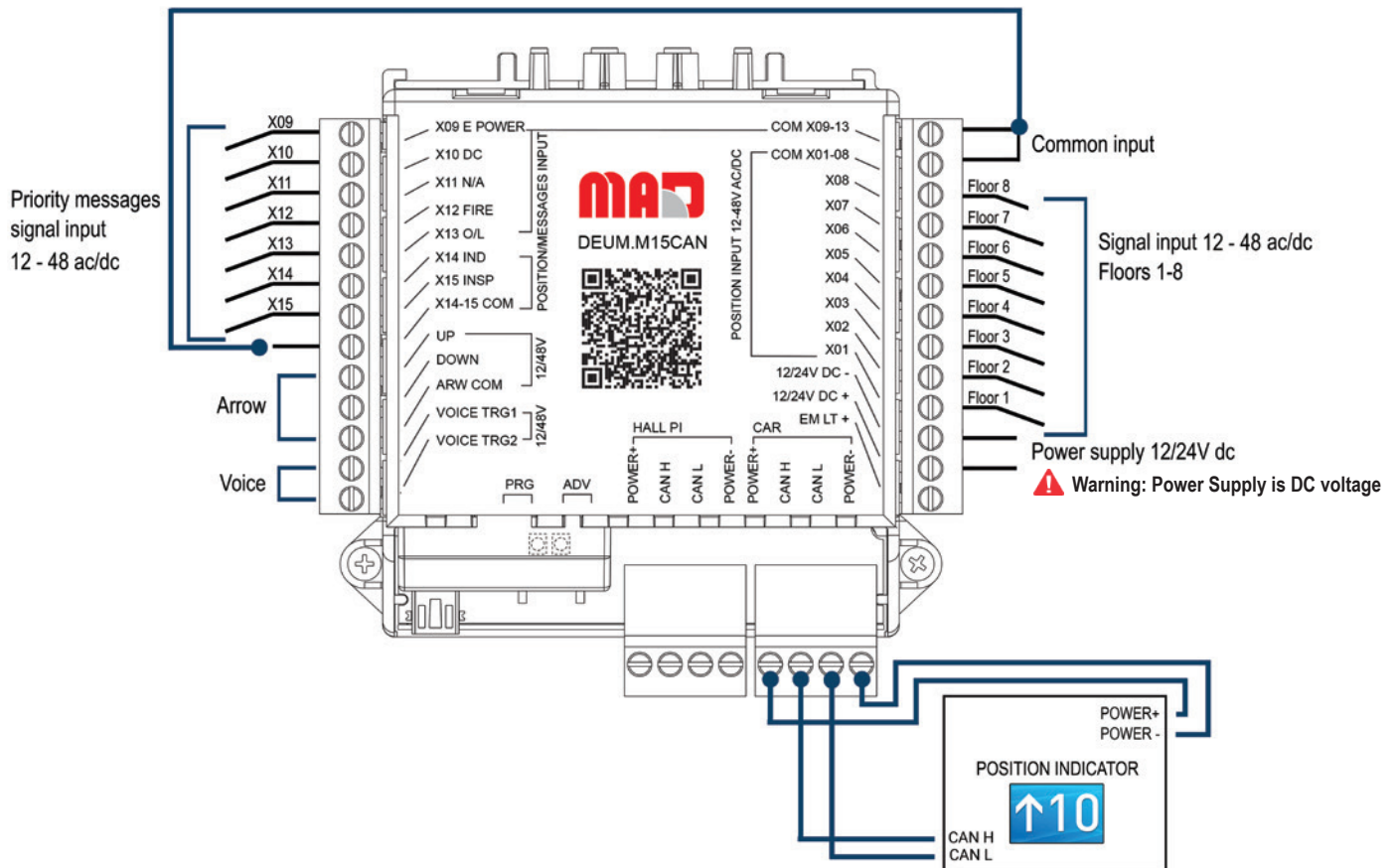
X09 — EMERGENCY POWER	X13 — OVERLOAD
X10 — DC	X14 — INDEPENDENT SERVICE
X11 — N/A	X15 — INSPECTION SERVICE
X12 — FIRE SERVICE	

STEP 7: Connect your **arrow common** to terminal **ARR_COM**, and the **arrow signal** wires to **UP** and **DOWN** as labeled.

STEP 8: To **activate voice annunciations**, supply voltage to **VOICE TRG1** and **VOICE TRG2** on the DEUM unit. Your **door limit switch** or **door zone landing switch** can be used to engage this.

STEP 9: Connect **power+** and **power-** from the opposite side of the DEUM driver to **power supply+** and **-** respectively on the **position indicator**.

STEP 10: Connect the terminals labeled **CAN H** and **CAN L** on the **DEUM unit** (**LINE+** and **LINE-** on previous version of DEUM units) to **CAN H** and **CAN L** inputs on the **position indicator**. This represents signal inputs.



TROUBLESHOOTING STEPS (SEE ON PI)

PI switches between 12 & 96

- Check if green light is flashing on DEUM driver. If not, check voltage to +12/24VDC and -12/24VDC.
- Check that your signal wires CAN H and CAN L are connected and not reversed. To eliminate wiring issues, connect the PI directly to the driver if possible.

PI shows no signal (NS)

- PI is displaying floor markings but lost communication to DEUM. Check for loose connections at the driver. Check input voltage at position input terminal. Measure voltage across COM X01-08 and binary bits/floor inputs (X01, X02, X03,...)

PI displaying wrong floor marking

- Make sure COM X01-08 is wired to reference/PI common.
- Check input voltage at position input terminal. Measure voltage across COM X01-08 and binary bits/floor inputs (X01, X02, X03...) to make sure the right inputs are getting triggered.
- You should read between 12-48V AC/DC across COM X01-08 to floor input (X01, X02, X03...). See binary table below for reference on which pins should be active on each floor.

Binary Tables

X07	X06	X05	X04	X03	X02	X01	
0	0	0	0	0	0	1	— 1
0	0	0	0	0	1	0	— 2
0	0	0	0	0	1	1	— 3
0	0	0	0	0	0	1	— 4
0	0	0	0	0	1	1	— 5
0	0	0	0	1	1	0	— 6
0	0	0	0	1	1	1	— 7
0	0	0	1	0	0	0	— 8
0	0	0	1	0	0	1	— 9
0	0	0	1	0	1	0	— 10
0	0	0	1	0	1	1	— 11
0	0	0	1	1	0	0	— 12
0	0	0	1	1	0	1	— 13
0	0	0	1	1	1	0	— 14
0	0	0	1	1	1	1	— 15
0	0	1	0	0	0	0	— 16

For further questions or assistance, please contact our Technical Support team:

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