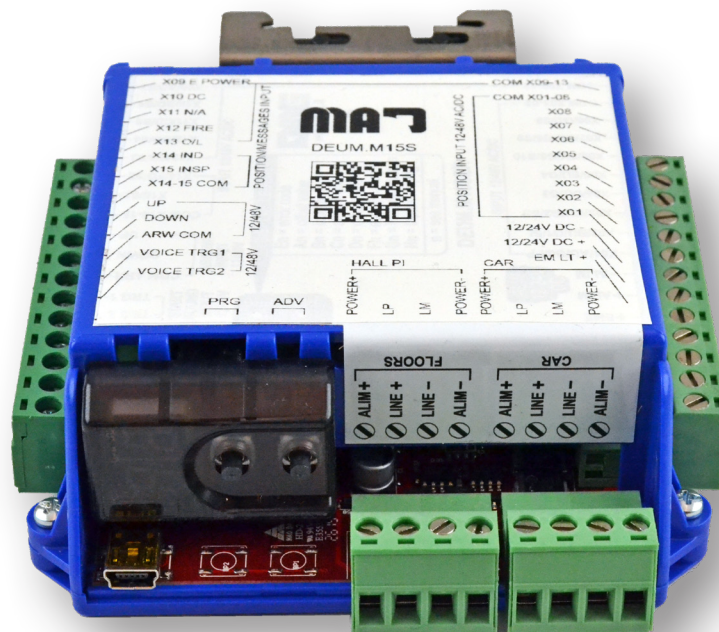




DEUM.M15S POSITION INDICATOR ENCODER QUICK GUIDE



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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:

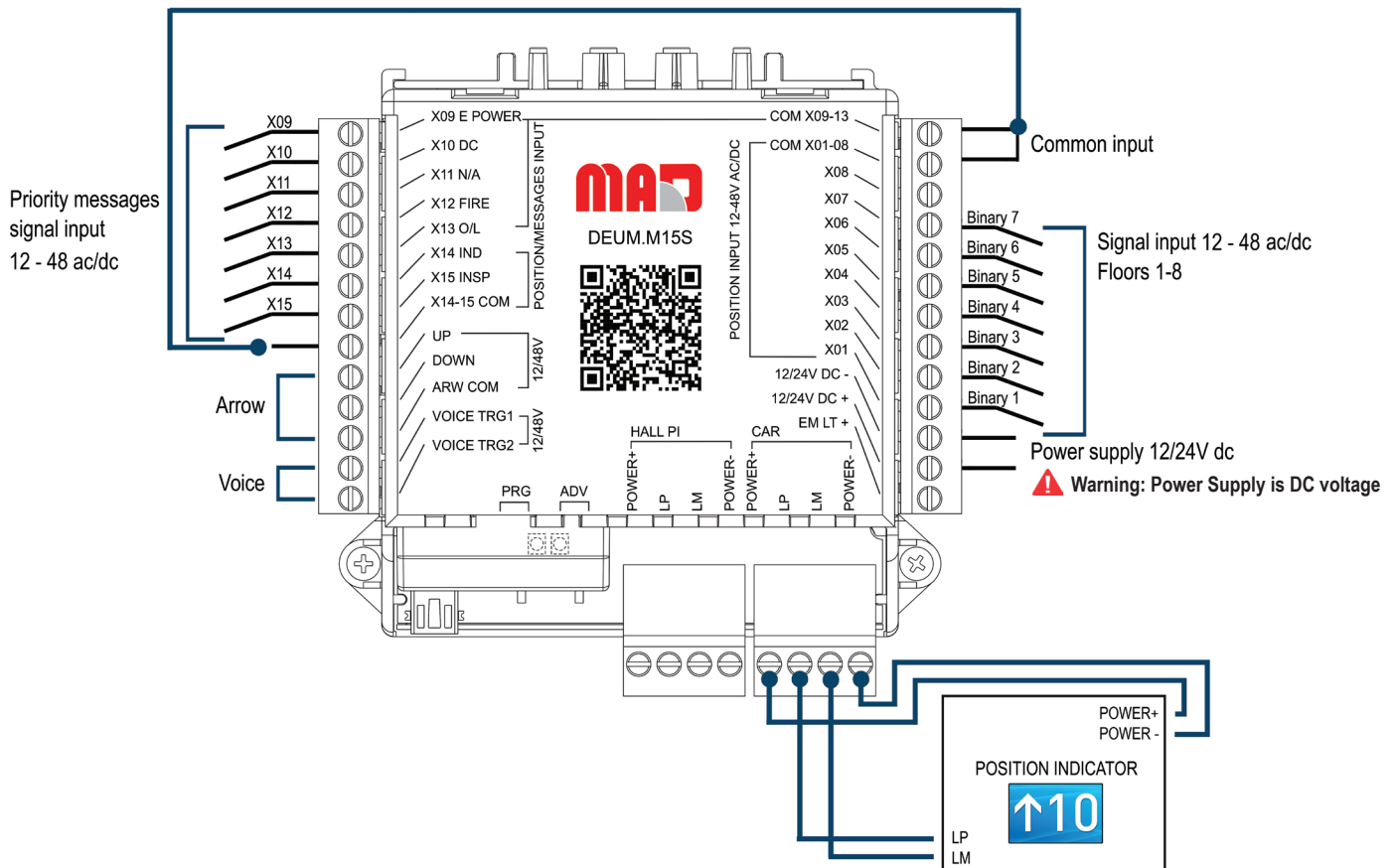
X09 — EMERGENCY POWER	X13 — OVERLOAD
X10 — DC	X14 — INDEPENDENT SERVICE
X11 — N/A	X15 — INSPECTION SERVICE
X12 — FIRE SERVICE	

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 **LP** and **LM** on the **DEUM** unit (**LINE+** and **LINE-** on previous version of DEUM units) to **LP** and **LM** 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:

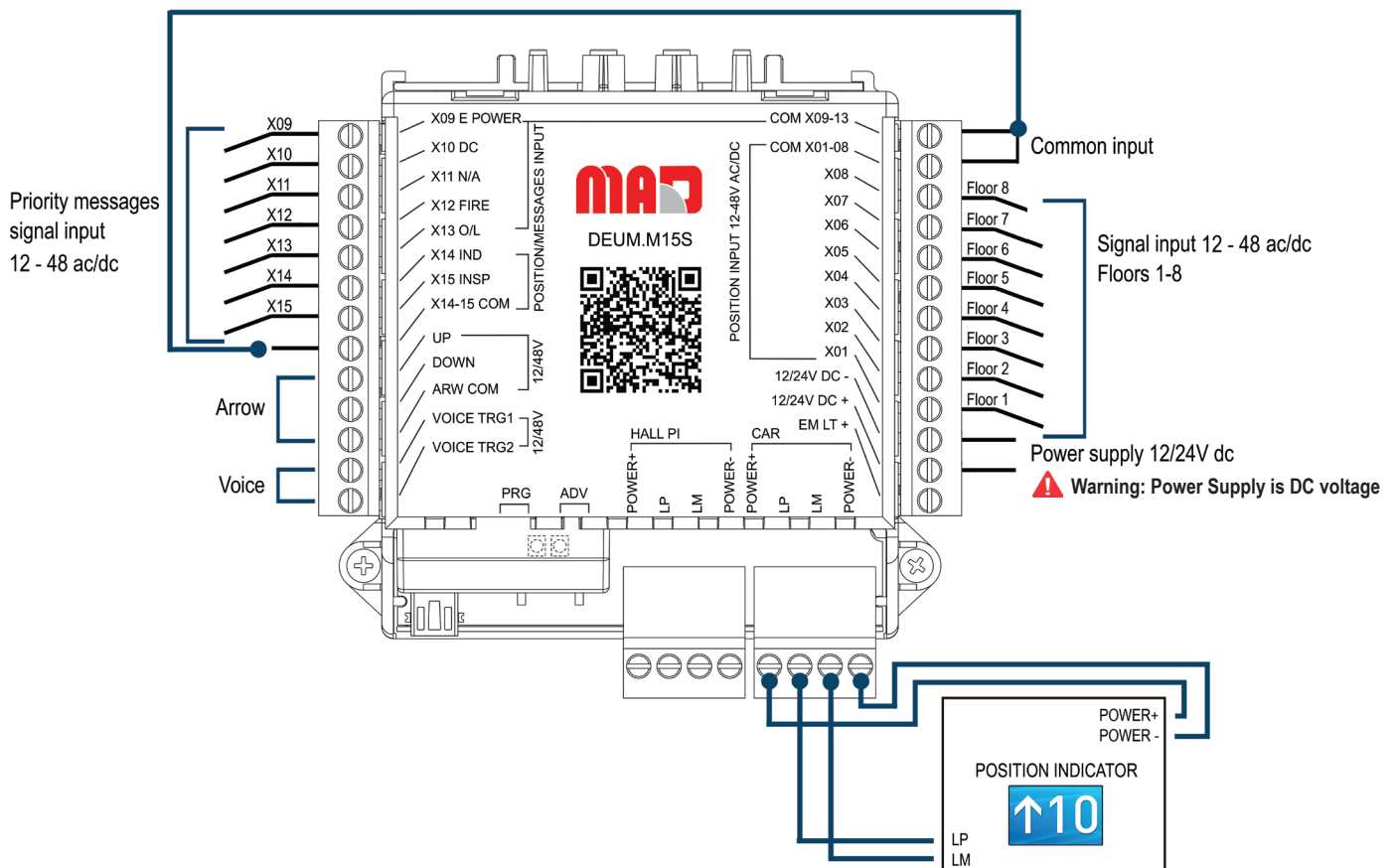
X09 — EMERGENCY POWER	X13 — OVERLOAD
X10 — DC	X14 — INDEPENDENT SERVICE
X11 — N/A	X15 — INSPECTION SERVICE
X12 — FIRE SERVICE	

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 **LP** and **LM** on the **DEUM unit** (**LINE+** and **LINE-** on previous version of DEUM units) to **LP** and **LM** 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 LP and LM 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	1	0	0	— 4
0	0	0	0	1	0	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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