

# Memco Elevator Position System

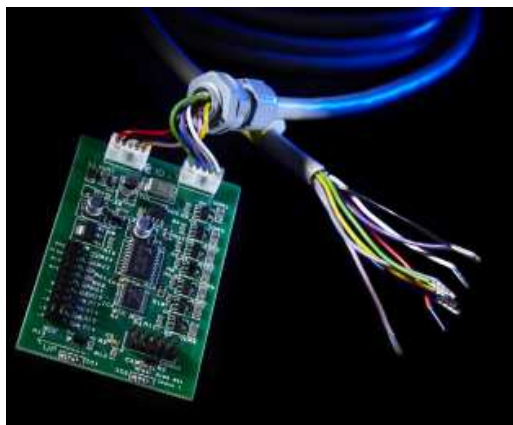


## PRODUCT INFORMATION SHEET

The Memco Elevator Indicator System is a sensor designed for use with display indicators to show both the current floor and direction of travel to the elevator user. A magnet is placed at each floor and as the sensor passes the magnet it increases or decreases the floor number depending on the direction of travel.

- Stand-alone from controller board: no reliance on protocol compatibility
- Works for all lift applications up to 3.6m per second and covers up to 32 floors
- Simple to install
- Low maintenance
- Indicates floor level and direction of travel

Installation is simple, requiring just the sensor to be mounted on a bracket, and a magnet glued at each floor level. No adjustments are required, apart from setting jumpers for the configuration of how the sensor is to be used. The floor count output is between 0 and 31, depending on configuration settings. The reference floor (normally the ground floor) uses a magnet with the opposite polarity. Each time the sensor passes this magnet, the count is reset, providing self-calibration.



The sensor can be configured to output the floor setting in binary, Gray code, or sequential output. Other jumpers can be used to set whether the output at the lowest floor is 0 or 1, and which level the reference floor is set to. In binary mode, the floor count is output is straight binary code, starting at 0 or 1 for the lowest floor. Gray code is similar, but follows the standard Gray code algorithm. In sequential mode, each output wire represents a single floor, meaning in this mode only 5 floors can be accommodated.



Specifications	
Input Voltage	24V DC Nominal. An input range of 12V – 30V DC is acceptable
Output Drive Current	Maximum 1A for all outputs combined
Max Distance between magnet face and sensor case	8mm
Outputs	5 Bit floor output, transistor drive to Vin with floating low Separate Up and Down outputs with transistor drive
Connections	9-core cable terminated in boot laced ferrules
Environmental Specifications	
Operating Temp. Range	-10°C to 60°C
Storage Temperature	-25°C to 60°C
Random Vibration	20-500Hz 0.002g <sup>2</sup> / Hz, 3 hours per axis
Sinusoidal Vibration	30Hz 3.6g RMS 30mins per axis
Protection Rating	IP54 BS EN60529:1992
Humidity	>90% @ 50°C
Drop Test	1m onto concrete horizontal orientation (3x), 0.5m onto concrete vertical
EMC	Emissions EN12015:2004, Immunity 12016:2008

Packages available	
Premium Package D100 100	1 x S1 display screen 7" 1 x S1 lens 1 x SD card 1 x stainless steel faceplate for COP or landing 1 x encoder board CX-BASIC 1 x D100 001 kit (sensor unit, bracket with pre-fitted screen cable, 7 magnets, mounting glue) 1 x 4m cable, screen to encoder, 4x PVC wires (AWG 18 or CSA 0.75mm2) shielded 1 x 24V DC power supply
Standard Package D100 200	1 x R1 display screen 4.3" 1 x R1 lens 1 x SD card 1 x stainless steel faceplate for COP or landing 1 x D100 001 kit (sensor unit, bracket with pre-fitted screen cable, 7 magnets, mounting glue) 1 x 3m cable, 4x PVC wires (AWG 18 or CSA 0.75mm2) shielded 1 x 24V DC power supply
Basic Package D100 300	1 x D100 001 kit (sensor unit, bracket with pre-fitted screen cable, 7 magnets, mounting glue) 1 x cable 1 x 24V DC power supply
Accessories available D100 800 EMD-135-0-1-0015	Pack of 7 magnets 1 x 24V DC power supply

*This product is designed for use in elevators with powered automatic doors where the closing force is 25N/mm or less as per EN81 requirements. It should be installed by qualified personnel only, therefore any use outside of this application is at the installer's own risk and should be assessed appropriately.*

*As a result of our policy of continual improvement, the information in this document is subject to change without notice and it is intended only as general guidance on product performance and suitability. This information shall not form part of any contract.*

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