

TB-MP017



TECHNICAL BULLETIN

INFORMATION ONLY

For the Attention of :		Graham Mears, Peter Amura, Dave Franklin, Contract Managers, Service Branch Managers, Testers, Margaret Pitman and all subcontract installers			
From:	Pete Canning – Product Support Manager (Passenger Lifts)				
Date :	15 March 2016				
Product :	MP				
Subject :	MP Magnet Set Up - Microbasic.				
Pages :	1 + 7 (attached) = 8 total				
rayes.					

Background

There does appear to be a lot of 'discussion' concerning the topic of Magnet set up with MP products.

Following a visit to MP on 14 March, please find attached the extract from the Installation Manual concerning the correct set up of Magnets. Please follow this.

I hope you find this Bulletin to be of help and should you have any questions about this topic or would like to know a little more then please contact me on **Ext 8646 or DDI 01264 34 36 46**

Thanks

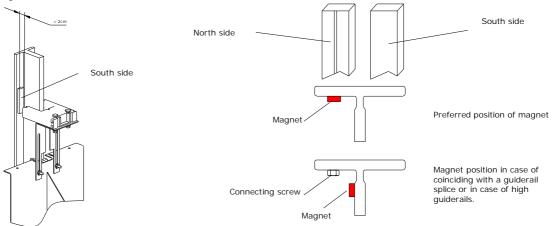


MICROBASIC 4'S PRE-ASSEMBLED ELECTRICAL INSTALLATION

3.3.4. Magnet fitting

When fitting the magnets, special attention must be paid to their position with reference to the solenoids, directing the magnet sides properly and keeping the specified distances. Always observe the following guidelines:

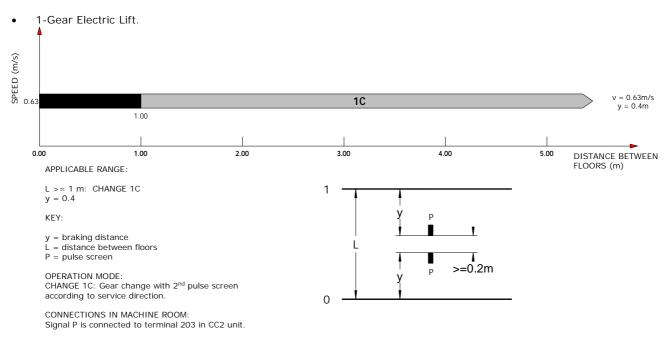
- It is recommended to previously clean the guiderail.
- No type of adhesive is required.
- Do not fit them near the overspeed governor rope.
- Preferably, fit the magnets on the guiderail base. If impossible, because the magnet position coincides with the screws of a guiderail splice, fit the magnet on the guide rail core (see figures below), so that it does not interfere with the guide shoes or safety gear.
- The distance between the magnet and the solenoid end must be 2 cm maximum (see figure on the left). In case of guiderails with high core, when this requirement cannot be met with the magnet stuck to the base, fit the magnet on the core as in the previous case.
- Always stick the magnets to the guiderail on its north side, except for the case of pulse magnets with solenoid 326. In this case, magnets will be stuck on the south side. The north side will be marked with longitudinal slot as in the figure.



The first thing to be taken into account when fitting magnets is the criterion used by the control to carry out the gear change also called type of change, before stopping.

The type of change will depend on the distance between floors, the gear and the type of lift. MicroBasic control considers four types of change represented in the following figure:

The table for selecting the type of change according to the gear and distance between floors is displayed below.



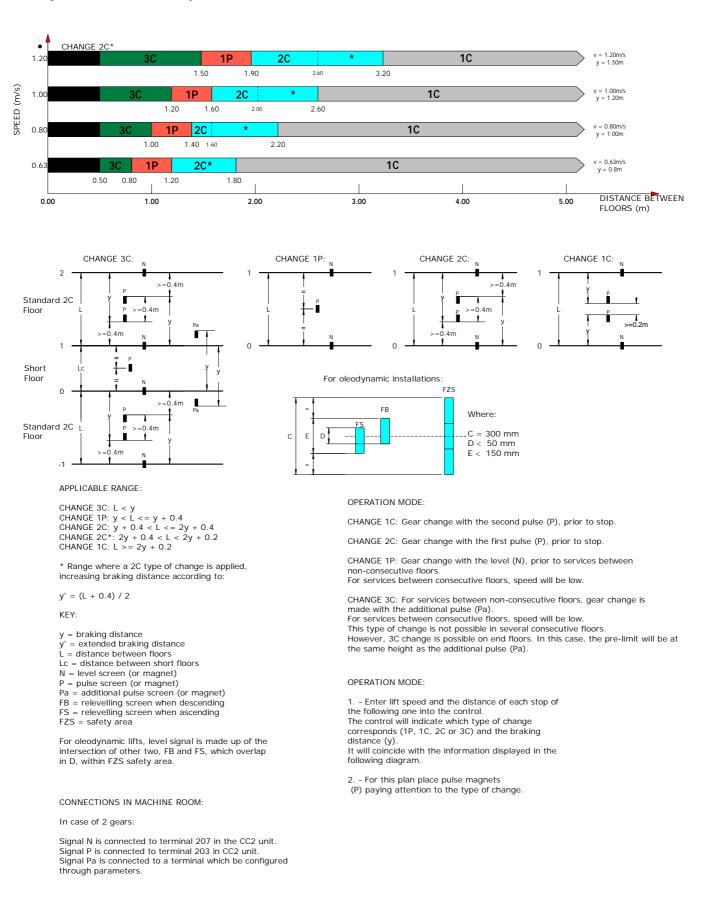
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MICROBASIC 4'S PRE-ASSEMBLED ELECTRICAL INSTALLATION

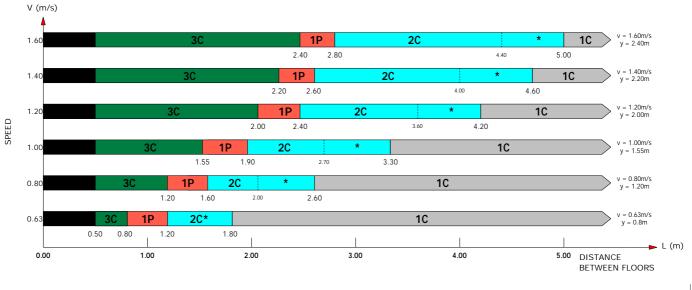
2-gear electric lift and oleodynamic lift

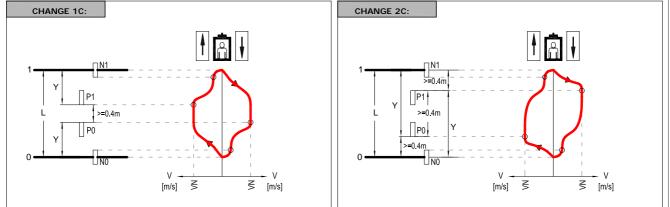


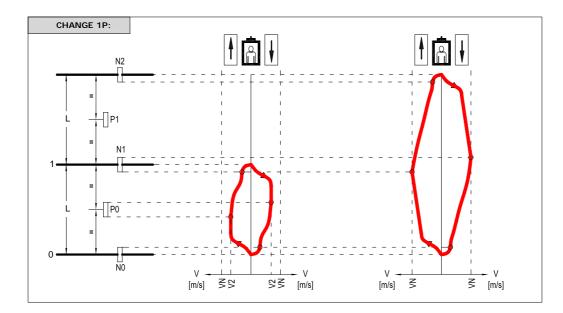


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Electric Lift with Frequency Variation

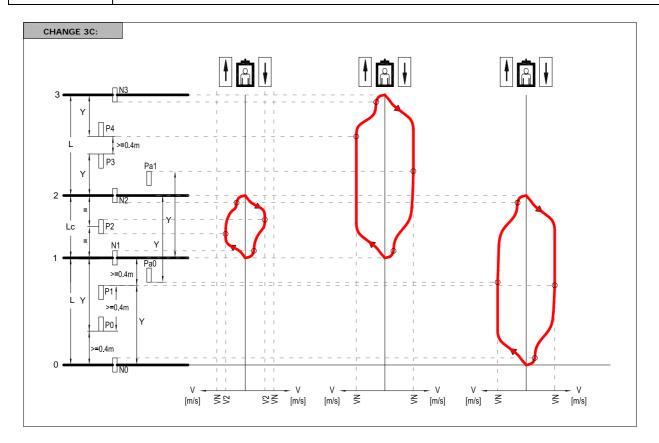








MICROBASIC 4'S PRE-ASSEMBLED ELECTRICAL INSTALLATION



APPLICABLE RANGE:

 $\begin{array}{l} \mbox{CHANGE 3C: } L < y \\ \mbox{CHANGE 1P: } y < L <= y + 0.4 \\ \mbox{CHANGE 2C: } y + 0.4 < L <= 2y + 0.4 \\ \mbox{CHANGE 2C*: } 2y + 0.4 < L < 2y + 0.2 \\ \mbox{CHANGE 1C: } L >= 2y + 0.2 \end{array}$

* Range where a 2C type of change is applied, increasing braking distance according to:

Y' = (L + 0.4) / 2

Key:

y = braking distance Y' = extended b " = extended braking distance L = distance between floors

L = distance between short floors N = level screen (or magnet)

- P = pulse screen (or magnet)
- Pa = additional pulse screen (or magnet) VN = Rated Speed

V2 = Medium Speed

CONNECTIONS IN MACHINE ROOM

Signal N is connected to terminal 207 in the CC2 unit. Signal P is connected to terminal 203 in the CC2 unit. Signal Pa is connected to a terminal which be configured through parameters.

OPERATION MODE:

CHANGE 1C: Gear change with the second pulse (P), prior to stop.

CHANGE 2C: Gear change with the first pulse (P), prior to stop.

CHANGE 1P: Gear change with the level (N), prior to services between non-consecutive floors. For services between consecutive floors, start-up in second gear and change with medium pulse (P).

CHANGE 3C: For services between non-consecutive floors, changing gears will occur with the additional pulse (Pa). For services between consecutive floors, start-up in second gear and change with medium pulse (P). This type of change is not possible in several consecutive

floors.

However, 3C change is possible on end floors. In this case, the pre-limit will be at the same height as the additional pulse (Pa)

OPERATION MODE:

1. - Enter lift speed and the distance of each stop of the following one into the control.

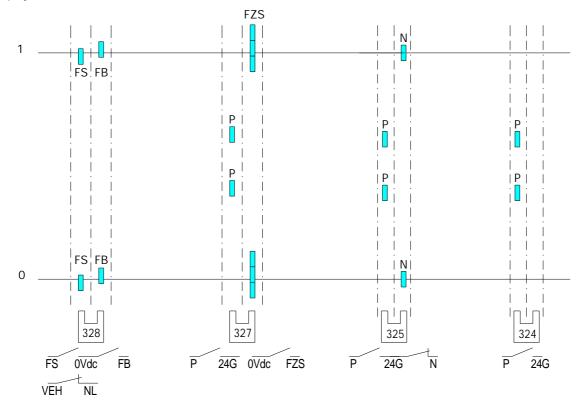
The control will indicate which type of change corresponds (1P, 1C, 2C or 3C) and the braking distance (y). It will coincide with the information displayed in the previous diagrams.

2. - For this plan place pulse magnets (P) paying attention to the type of change



MICROBASIC 4'S PRE-ASSEMBLED ELECTRICAL INSTALLATION

In the following figure, the different possible settings of the solenoids / magnet rows, depending on the type of lift, are displayed.



Where:

324: Only for one-gear installations

325: For electrical installations without open door approach.

327 and 328: For electrical installations with open door approach and oleodynamic installations with open door relevelling

FB: Relevelling signal when descending FS: Relevelling signal when ascending FZS: Safety area signal

N: Level signal

NL: Emergency level signal

P: Pulse signal

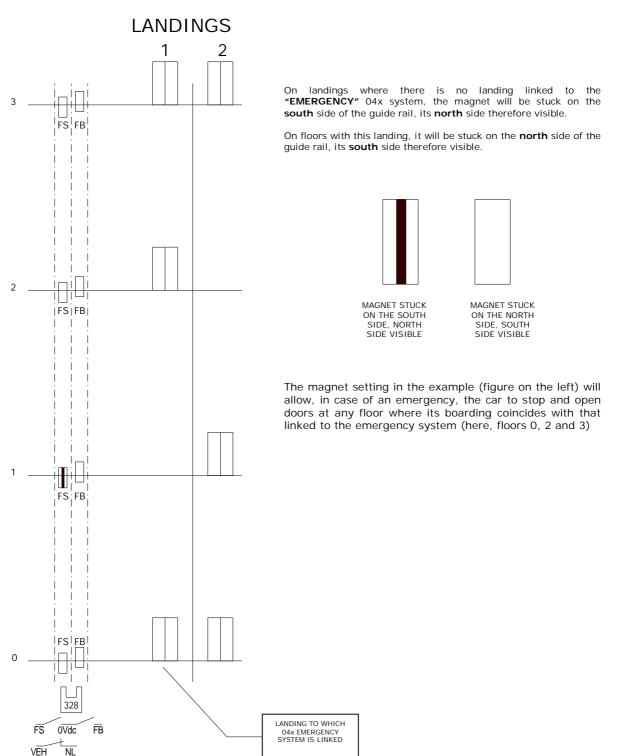
In case of using cylindrical solenoids instead of MP switches, the equivalence will be as follows:

324: 1 switch 1 NA contact
325: 1 switch 1 NA contact + 1 switch 1 NA contact
327: 2 switches 1 NA contact
328: 1 switch 1 NA contact + 1 switch (1 NA contact + 1 NC contact)



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• Case of a 04x Emergency system for oleodynamic lift with double landing.

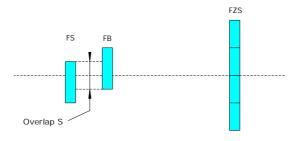


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Finally, the magnet layout in the different cases of approaching / relevelling with doors open is displayed.



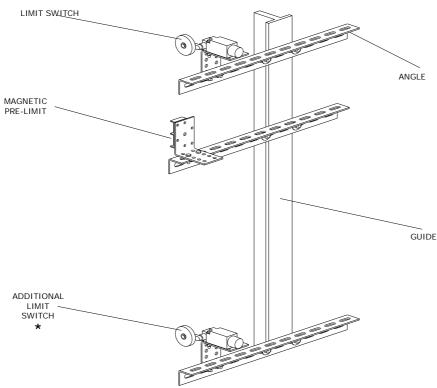
NUMBER OF MAGNETS PER FLOOR	FS	FB	FZS	S
ELECTRICAL v \leq 1.4 m/s	1 x 150 mm	1 x 150 mm	4 x 100 mm	100 mm
ELECTRICAL v > 1.4 m/s	2 x 100 mm	2 x 100 mm	4 x 150 mm	150 mm
OLEODYNAMIC	1 X 100 mm	1 X 100 mm	3 X 100 mm	50 mm

Where:

FB: Relevelling signal when descending FS: Relevelling signal when ascending FZS: Safety area screen

S: Overlap.

3.3.5. Fitting an additional limit switches



* The additional limit switch must be placed in such a way that, when activated by the actuating slide in the car, there is a distance higher than 1.5 m between the car ceiling and the Well headroom

This device is only available in case of reduced headroom or pit and will only operate in INSPECTION mode.

This 1.5 m distance is the safety distance for an operator to work on the car ceiling without any risk of crushing, in case of an accident.