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LOADCELL MODULE MCE2010

Installation guide for module for digital loadcells

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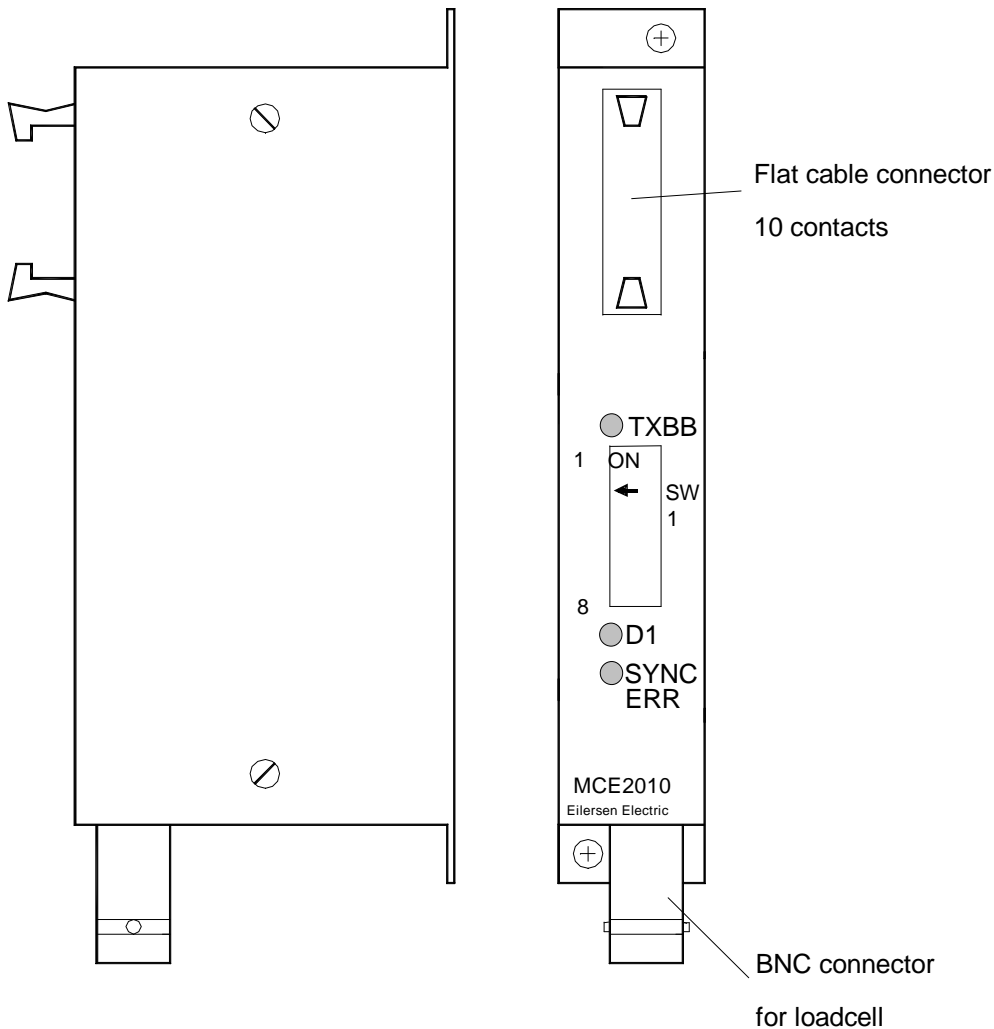
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1) Installation

Below the layout of the MCE2010 loadcell module is shown. Before using the system the loadcells must be connected to the loadcell modules.

*Please notice that the loadcell and the loadcell module **MUST** be marked with the same year/serialnumber. These are printed on the type-plate of the loadcell and on a small sticker placed below the BNC plug on the loadcell module. Loadcells and loadcell modules **MUST NOT** be intermixed because the program in each loadcell module is **SPECIALLY** adapted to one loadcell only (and only this loadcell). The loadcell module **MUST** be connected to exactly the loadcell it is intended for and vice versa.*



The loadcell modules are connected to each other using the supplied cable (10 pole ribbon cable). The terminal module (the one with connection terminals) and possibly a communications module are connected using the same cable.

All switches (SW1) in the loadcell module must be at the correct position before use.

Please notice that the switches (SW1) are only read once during power-up. If a change in the switch setting is necessary the power has to be disconnected and then reconnected (after 10 seconds). Then the MCE2010 loadcell module recognizes the new switch setting.

The three LED's are used to indicate the following conditions:

MCE2010 LED'S		
TXBB	Green	Lit whenever the loadcell module transmits data. Must be on/flashing rapidly whenever the system is started.
D1	Yellow	No synchronisation between loadcell modules: One or more loadcells not connected to loadcell module or poor connection.
SYNC ERR	Red	No loadcell synchronisation: No loadcell connected to loadcell module or poor connection.

The switches SW1.1 to SW1.4 are used to select different modes of operation. The below table is valid for the normal standard software in the loadcell module. Unless expressly specified, the default settings must normally be used.

MCE2010 SW1.1 to SW1.4		
SW1 No	Default setting	Function
1	OFF	Baud rate OFF: 115200 ON: 230400
2	ON	Filter, MSB
3	ON	Filter, LSB
4	OFF	Not used

Switch SW1.5 to SW1.8 are used for address selection. All loadcell modules must have unique addresses ascending from 0 with no gaps unless expressly specified in the manual for the module/display connected to the system. In systems with 1-8 load cells switch SW1.5 must be set to OFF. Please refer to the separate manual for special systems using more than eight loadcells for further details.

MCE2010 SW1.6 to SW1.8				
SW1.5	SW1.6	SW 1.7	SW1.8	Address
OFF	OFF	OFF	OFF	0
OFF	OFF	OFF	ON	1
OFF	OFF	ON	OFF	2
OFF	OFF	ON	ON	3
OFF	ON	OFF	OFF	4
OFF	ON	OFF	ON	5
OFF	ON	ON	OFF	6
OFF	ON	ON	ON	7