DUELCO BUS TRANSFER (MCT)

Duelco MCT is an expansion module which allows the connection of M1 with other slave modules placed at great distances **(<50m).**

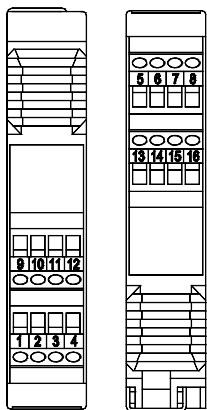Through the use of a shielded cable two MCT modules placed at the desired distance can be linked together.

Each MCT2 has two independent connection channels; the connection of two MCT2 can be performed by wiring a channel of your choice. MCT1 has only one channel and must be connected as the first or last module.

The figure beside shows an example of connection.

➡ The system response time does not change with the use of MCT modules.

Electrical connections

TERMINAL	SIGNAL		TYPE
	MCT1	**MCT2**	
1	**24VDC**	**24VDC**	Power supply 24VDC
2	n.c.	n.c.	–
3		**BRAIDING CH2**	–
4	**0VDC**	**0VDC**	Power supply 0VDC
5	n.c.	n.c.	–
6	n.c.	n.c.	–
7	**BRAIDING CH1**	**BRAIDING CH1**	–
8	n.c.	n.c.	–
9	n.c.	**CH 2 – A**	
10	n.c.	**CH 2 – B**	Be sure to connect to the corresponding terminals of the remote MCT:
11	n.c.	**CH 2 – C**	A <-> A
12	n.c.	**CH 2 – D**	B <-> B
13	**CH 1 – A**	**CH 1 – A**	C <-> C
14	**CH 1 – B**	**CH 1 – B**	D <-> D
15	**CH 1 – C**	**CH 1 – C**	BRAIDING <-> BRAIDING
16	**CH 1 – D**	**CH 1 – D**	You can also connect CH1 with CH2 (MCT2)

Signals

	LED			
MEANING	**ON (GREEN)**	**RUN (GREEN)**	**IN FAIL (RED)**	**EXT FAIL (RED)**
INITIAL TEST	**ON**	**ON**	**ON**	**ON**
NORMAL OPERATION	**ON**	**OFF > BLINKING > ON**	**OFF** operation OK	**OFF** operation OK
INTERNAL FAULT DETECTED *(Not recoverable. Restart the system)*	**ON**	**OFF**	**BLINKING** Follows M1 error codification *(see DSC MANUAL)*	**OFF**

Technical Data

Interface module	DSC MCT1	DSC MCT2
Connection channels	1	2
Connections	MSC 5-poles rear connector – Terminal block 16 poles	
Modules connections	• Max number of connectable **MCT = 6** • The possible bus module present in the system can be only allocated close to the first remote MCT or to M1 directly	

Max length of connection	<50m (each section)
Operating temperature	−10 ÷ 55°C
Storage temperature	−20 ÷ 85°C
Relative humidity	10% ÷ 95%
Dimensions (h x l x d)	108 x 22,5 x 114,5