DOMUS MODULE 6 CM² OF INFINITE FUNCTIONS



DOMUS cod. EXPMU6T









CE



Related devices: RELAY cod. MDLMR4T







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ATTENTION

DOMUS module is compatible with following control board:

- T011S control board for sliding gate motors, starting from version tS2111 onward.
- T011A control board for swing gate motors, starting from version tb2113 onward.
- **T011P** control board for **roller shutters**, starting from version **tA2101** onward.

MODULES

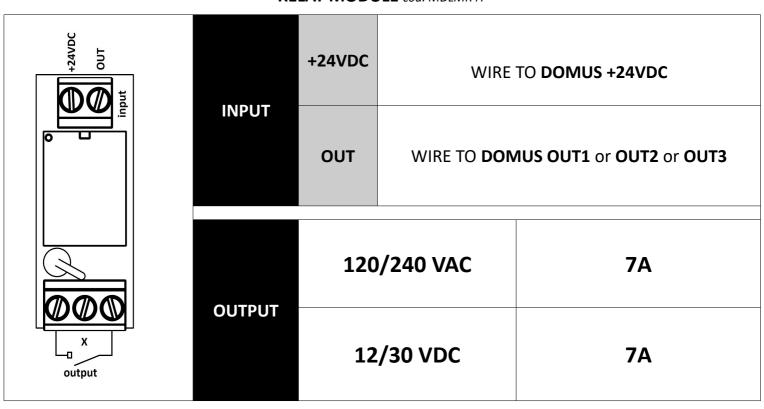
The **DOMUS** expansion consists of a **DOMUS** MODULE and up to three **RELAY** MODULES. The **DOMUS** module expands the control board with three open collector outputs. Each output controls a relay module. The **DOMUS** module has a **push-button K1** to select the outputs menu and three LEDs: **L1**, **L2** and **L3**. Each LED is linked to a relay status. The LED is ON when the corresponding RELAY output is closed. The **DOMUS** expansion may be used to control a variety of different applications, as for instance *timed lights controlled by remote*, *courtesy lights*, *flashing lamp*, *electric-lock*, *traffic lights*, and *extending an alarm system*.

DOMUS MODULE cod. EXPMU6T

+24VDC OUT 1	OUT 2	OUT 3
	0	(
		S1

+24VDC	24 VDC 150 mA
OUT1	OPEN COLLECTOR OUTPUT 1 24VDC - 40 mA
OUT2	OPEN COLLECTOR OUTPUT 2 24VDC - 40 mA
OUT3	OPEN COLLECTOR OUTPUT 3 24VDC - 40 mA
L1	OUTPUT 1 LED
L2	OUTPUT 2 LED
L3	OUTPUT 3 LED
K1	MENU SELECT PUSH-BUTTON
S1	CONNECTION SOCKET INSTALL ON CONTROL BOARD EXPANSION SOCKET

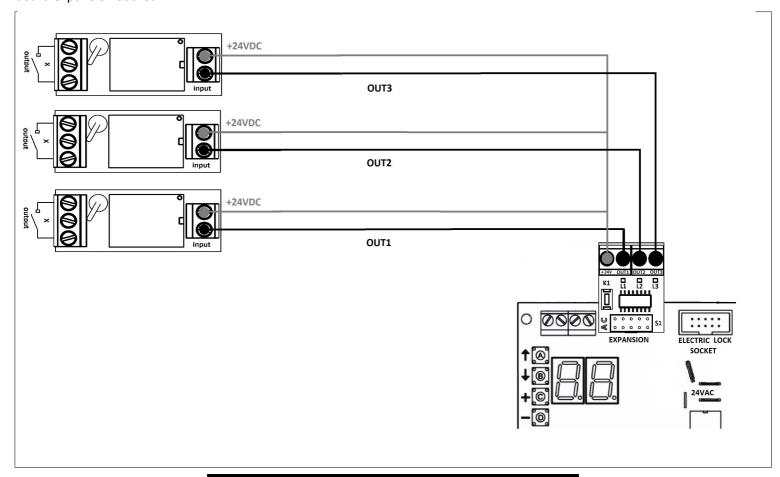
RELAY MODULE cod. MDLMR4T



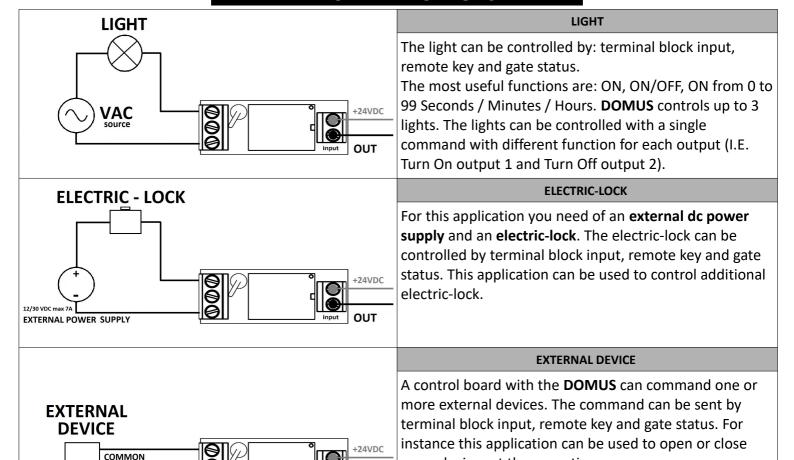
CONNECTIONS



In the figure below is shown the connection of three relay modules with the **DOMUS** module installed on control board expansion socket.



TYPICAL APPLICATIONS



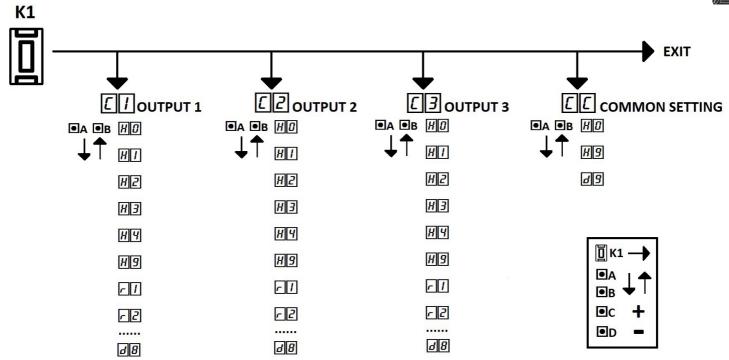
OUT

INPUT

more devices at the same time.

MENUS AND EVENTS





MENUS

Each output has its own menu. Life Life are the menu of output 1/2/3 respectively. The **common settings** menu Life acts on all outputs. The **output menu** acts only on its output. To select a menu press **K1 button**. To enter a menu press **A or B button**. Use **C or D button** to modify the settings. During programming all events are disabled, the outputs and LEDs are set to OFF. After programming may be necessary to restart the control board to make the settings effective. The programming phase starts when the A, B, C, D or K1 button is pressed.

EVENTS

Each output ([2], [2], [2]) has the same settings. This settings allows to start a function after an event is detected. These function are called **DOMUS functions**. An event is a change in the control board status. For instance the gate opening, the pressing of remote key or switching of key selectors are events. The events are based on classes. You can distinguish events and functions of a class by a letter displayed. For instance the letter G identifies the events of gate status.

EVENT CLASS	DESCRIPTION
H	H-TYPE events are generated when a H-Type remote key is pressed. The H-Type remote are all remote keys stored using the functions [H], [H]] or [H]. They are called DOMUS remote also. A DOMUS remote key can be stored on more outputs with different DOMUS functions . The DOMUS remote keys do not start the gate movement.
E	R-TYPE events are generated when a R-Type remote key is pressed. The R-Type remote are all remote keys stored using the functions
E	E-TYPE events are generated when an input terminal block is activated. The gate working functions like open or close are set in the standard menu using E [1], E [2],, E [7] parameters. The DOMUS functions are set in the output menu using E [1], E [2],, E [7] parameters.
<u></u>	G-TYPE events are generated from the control board state. The states are: [1] turning on, [2] opening, closing, closing, [3] closing, [4] waiting for closing (pause time), [5] stop-opening or stop-closing, and [6] closing end.

To enter in the standard menu: press **A** or **B** when the display show or one of inputs like stop(5). To enter in the output menu: press **k1** to select the menu or or one of inputs like stop(5). Press **A** or **B** to enter.

DOMUS FUNCTIONS AND EVENTS ROUTING



Each event can be linked to a **DOMUS function**. The **DOMUS functions** are:

DISPLAY	DOMUS FUNCTION	DESCRIPTION
no	DISABLED	Event disabled. It does not have any effect.
01	ON - OFF	Event switches output value between ON and OFF.
02	ON	Event sets output to ON.
03	OFF	Event sets output to OFF.
04	ON WHILE SOURCE IS ACTIVATED	While the source is activated the output is ON. When the source is inactive the output is OFF.
05	SUSPEND OFF WHILE SOURCE IS ACTIVATED	The current function is suspended and the output is set to OFF while the source is activated.
06	FAST BLINKING	Output ON for 0.3 seconds, OFF for 0.2 seconds.
07	SLOW BLINKING	Output ON for 0.6 seconds, OFF for 0.4 seconds.
08	ON FOR E SECONDS	output on for E seconds. Min-Max value: 0-99.
03	ON FOR EZ MINUTES	output on for 티크 minutes. Min-Max value: 0-99.
10	ON FOR 🖽 HOURS	output on for 티크 hours. Min-Max value: 0-99.
11	ON FOR 🖽 HOURS 🗗 MINUTES	output on for 🗵 hours 💷 minutes.

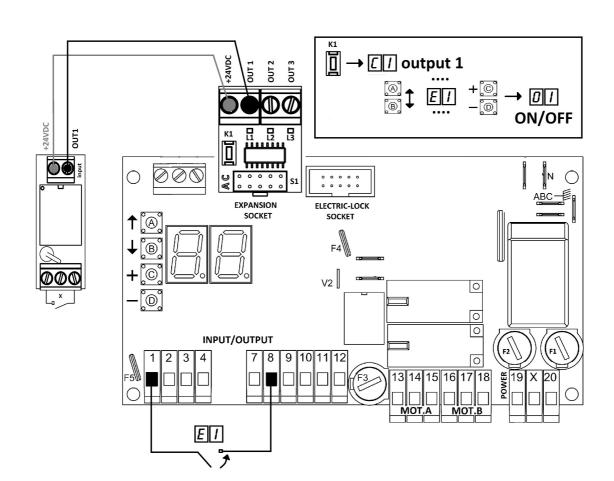
EVENTS ROUTING

Select the output [1], [2] or [3] pressing **K1**. Select the event pressing **A** or **B**. Select the **DOMUS** function pressing **C** or **D**. When the event is generated the **DOMUS** function starts.

EXAMPLE

Turn On/Off the output 1 pressing a push-button wired on input 1

Press **K1** to select **output 1** menu. When display shows D press A or B to enter in the output 1 menu. Select the event D by pressing A or B. When the display show D press C or D and set the DOMUS function D ON/OFF.



OUTPUT MENU



Each output menu contains the same events, functions and data. In the table below are listed all events, functions, and data of an output.

DISPLAY	EVENT	FUNCTION	DATA	DESCRIPITION
HO		ERASE		ERASE DOMUS REMOTE KEY: Select the output menu [1], [2] or [3]. Select [9] function. The display shows the remote key IDs stored on the output. To erase, hold down C button when the display shows the desired ID. The display blinks. When the display is off the remote key is erased.
HT HY	H – TYPE DOMUS REMOTE	STORE/SET		STORE DOMUS REMOTE KEY: Select the output menu [], [] or []. Select [], [] H] or []. Hold down the remote key and press the C button. The display shows the remote ID. SET DOMUS FUNCTION: Select the output menu [], [] or []. Select the function: [], [] or []]. Hold down D button. The display blinks showing the selected function. When the display stops blinking release D button. Press C or D button to set the DOMUS function from [] to []].
HB		ERASE ALL		ERASE ALL DOMUS REMOTE KEYS: Select the output menu [1], [2] or [3]. Select [9] function. Press C button. The display blinks showing [5]. When the display stops blinking showing [5], the erasing is complete.
				The STANDARD remote are start, start, stop, stop
-TY	R - TYPE STANDARD REMOTE	SET		SET DOMUS FUNCTION Select the output menu [1], [2] or [3]. Select the function: [1], [2], [3] or [4]. Press C or D button to set the DOMUS function from [6] to [7].
				The storing and erasing function are available in the classic menu.
E	E - TYPE TERMINAL BLOCK INPUT	SET		SET DOMUS FUNCTION Select the output menu [1, [2] or [3]. Select the function: [1] input 1, [2] input 2, [3] input 3, [7] input 7. Press C or D button to set the DOMUS function from [9] to [1].
01 08	G-TYPE GATE STATUS	SET		SET DOMUS FUNCTION: Select the output menu [1], [2] or [3]. Select the G-type parameter: [1] turning on, [2] opening, [3] closing, [4] waiting for closing (pause time), [5] stopopening/closing, [5] closing end. Press C or D button to set the DOMUS function from [9] to [1].
ET			TIMER	E 1 → SECONDS E 2 → MINUTES E 3 → HOURS
E3		-	MIN MAX 00 99	+/-: Select the output menu [1], [2] or [3]. Select the timer [1], [2] or [3]. Press C to increase by 1. Press D to decrease by 1.
PH				Each event type has a programmable priority. PH sets the priority of H-type remote controllers, PE sets the priority of inputs
Pr			SOURCE	terminal block, $P \mathcal{L}$ sets priority of standard type remote controllers, and $P \mathcal{L}$ sets priority of gate status. When two or more
PE		-	PRIORITY MIN MAX	sources are active, only the function linked to highest priority source will be set.
PG			01 05	+/-: Select the output menu [], [] or []. Select []H, []F, []E or []. Press C to increase by 1. Press D to decrease by 1.

OUTPUT MENU



Each output menu contains the same events, functions and data. In the table below are listed all events, outputs and data of output.

DISPLAY	EVENT	FUNCTION	DATA	DESCRIPITION
		ENABLE DISABLED	OPTION MIN MAX 00 01	ENABLE/DISABLE KEEP COUNTING OPTION: Select the output menu [1], [2] or [3]. Select the option [a]H, [a]r or [a]E. Press C to set [a]I] (enabled) or Press D to set [a]D] (disabled). When one of following DOMUS functions: [a]B,
οE				class events: H-TYPE, R-TYPE or E-TYPE.
d1 d8		SET		SET A PRE-PROGRAMMED CONFIGURATION: Select the output menu [1], [2] or [3]. Select the configuration from [4] to [4]. Press C button. The display blinks showing the selected configurations. When the display shows the output menu [1], [2] or [3] the configuration is set. There are eight per-programmed configurations. Each configuration can be used to manage an application. The applications are: [4] Timed light is used to control a light with a remote key. Store a DOMUS remote key with following functions for: [5] → ON/OFF [6] → ON/OFF [7] → ON/OFF [7] → ON for 90 seconds. [7] → ON for 12 hours. [7] ← Hashing lamp At opening/closing the flashing lamp blinks rapidly/slowly, at pause time the flashing lamp is ON. the flashing lamp is OFF. When the photocells beam is broken, otherwise is OFF. [7] ← Helectric-lock. The electric-lock is activated for 3 seconds when: [7] ← The gate starts opening. [7] ← A remote key stored with Helectric flashing lamp is Down the wisting alarm system. When the gate is closed and a photocell beam is broken the output will be ON for 3 seconds. Press a remote key stored using Helectric flashing lamp is ON. In stop-closing or stop-opening state the light from more sources: gate status, photocells or remote. When the gate is opening/closing the light is ON. During the automatic closure time the light is ON. In stop-closing or stop-opening state the light is ON for 30 seconds. Helectric how is proved the light is ON for 30 seconds. [8] ← Helectric how is proved the light is ON for 30 seconds. Helectric how is proved the output on the light is one one of the light is one of the light is ON for 30 seconds. Helectric how is proved the light is one of the light is one o

COMMON SETTING MENU



The common settings menu acts on all output.

DISPLAY	EVENT	FUNCTION	DATA	DESCRIPITION
HO		ERASE		ERASE DOMUS REMOTE: Select common settings menu [C]. Select [H] function. The display shows all the remote key IDs stored on all outputs. When the display shown the desired ID hold down C button to erase. The display starts blinking. After the remote key has been erased the display turns off
H3		ERASE ALL		ERASE ALL DOMUS REMOTE KEYS: select common settings menu []. Select [H] function. Press C button . The display blinks showing [5]. When the display stops blinking showing [5] the erasing is complete. All remote keys are erased on all outputs.
<u>d</u> 9		SET		SET FACTORY CONFIGURATION: select common settings menu ☐ C. Select ☐ configuration. Press C button. The display blinks showing ☐ After the factory settings have been set, the display shows ☐ Output 1 → timed light ☐ I Store a DOMUS remote key with following functions for: • H → ON/OFF • H → ON for 90 seconds. • H → ON for 60 minutes. • H → ON for 12 hours. Output 2 → gate open ☐ Set the output 2 to ON when the gate is open. Output 3 → gate closed ☐ T Set the output 3 to ON when the gate is closed.

FACTORY CONFIGURATION

The control board is supplied with the following configurations programmed:

OUTPUT 1 → timed light 📶	OUTPUT 2 → gate open 🕫	OUTPUT 3 \rightarrow gate closed \Box
Store a DOMUS remote key with following functions for: • ☐ ☐ → ON/OFF • ☐ ☐ → ON for 90 seconds. • ☐ ☐ → ON for 60 minutes. • ☐ ☐ → ON for 12 hours.	The output is ON when the gate is open.	The output is on when the gate is closed.

PRE-PROGRAMMED CONFIGURATIONS

T011S Sliding control board



		d timed light	d2 flashing lamp	⊿ 3 electric lock	व्यप alarm	d5 courtesy light	ළුව් gate open	₫ 1 gate closed	₫ В disabled
HI	DOMUS REMOTE	OI ON/OFF				OI ON/OFF			
H2	DOMUS REMOTE	08 ON t1 Secs		🛮 🗗 ON t1 Secs	OB ON t1 Secs	🛮 🗗 ON t1 Secs			
H3	DOMUS REMOTE	णि ON t2 Mins				OS ON t2 Mins			
НЧ	DOMUS REMOTE	ON t3 Hours				ON t3 Hours			
- I	START REMOTE								
<u> </u>	STOP REMOTE		-			+			
<u> </u>	PED. REMTOE								
<u> </u>	F.CL. REMOTE					+			
-					+				
EI E2	T.B. INPUT 1		-			+			
E3	T.B. INPUT 3		05 SUSPEND		08 ON t1 Secs	OB ON t1 Secs			
E 4	T.B. INPUT 4		05 SUSPEND		DB ON t1 Secs	ON t1 Secs			
E 5	T.B. INPUT 5						03 OFF	@2 o n	
E 6	T.B. INPUT 6					+	@2 on	03 OFF	
E7	T.B. INPUT 7					<u> </u>			
G I	TURINING ON							02 o n	
02	OPENING		06 FAST BL.		03 OFF	@2 on	02 o n	O3 OFF	
03	CLOSING		O 7 SLOW BL.		D3 OFF				
04	PAUSE		@2 ON		03 OFF				
<u> </u>	STOP		03 OFF		03 OFF	💴 ON t1 Secs	@2 on		
<u> </u>	CLOSING END		03 OFF			☐ ON t2 Mins	03 OFF	02 o n	
EI	TIMER SECS	30 SECONDS		@3 SECONDS	□∃ SECONDS	60 SECONDS			
F 2	TIMER MINS	60 MINUTES		DECOMPS	ELE SECONDS	DB SECONDS DB MINUTES			
F3	TIMER HOURS	I HOURS				OI HOURS			
					[2]				
PH	DOMUS REMOTE PRIORITY				02	02			
Pr	START - STOP – PED – F.CL.								
سانت ا	REMOTE PRIORITY								
PE	T.B. INPUT PRIORITY								
PG	GATE PRIORITY				02	02			
οН	DOMUS REMOTE KEEP COUNTING								
or	START – STOP – PED – F.CL. REMOTE KEEPT COUNTING								
οE	T.B. INPUT KEEP COUNTING								

PRE-PROGRAMMED CONFIGURATIONS

T011A Swing control board



		₫ [/] timed light	d2 flashing lamp	₫3 electric lock	व्यप alarm	d5 courtesy light	₫ 6 gate open	gate closed	சி disabled
HI	DOMUS REMOTE	OI ON/OFF				01 ON/OFF			
H2	DOMUS REMOTE	🛮 🗗 ON t1 Secs		OB ON t1 Secs	🛮 🗗 ON t1 Secs	08 ON t1 Secs			
H3	DOMUS REMOTE	09 ON t2 Mins				09 ON t2 Mins			
НЧ	DOMUS REMOTE	ON t3 Hours				10 ON t3 Hours			
	START REMOTE								
72	STOP REMOTE								
<u></u>	PED. REMTOE								
74	F.CL. REMOTE								
EI	T.B. INPUT 1								
E2	T.B. INPUT 2								
E 3	T.B. INPUT 3		05 SUSPEND		🛮 🗗 ON t1 Secs	OB ON t1 Secs			
EЧ	T.B. INPUT 4		05 SUSPEND		08 ON t1 Secs	OB ON t1 Secs			
E7	T.B. INPUT 7								
<i>G I</i>	TURINING ON							02 ON	
<u> </u>	OPENING		06 FAST BL.		O3 OFF	@2 on	@2 on	∅3 OFF	
<u>[]</u>	CLOSING		07 SLOW BL.		03 OFF	02 ON	02 o n		
<u> </u>	PAUSE		02 on		03 OFF	02 ON	02 on		
<u></u>	STOP		□∃ OFF		03 OFF	08 ON t1 Secs	02 o n		
<u> [6</u>	CLOSING END		03 OFF			OS ON t2 Mins	03 OFF	02 ON	
ΕI	TIMER SECS	30 SECONDS		□3 SECONDS	□ 3 SECONDS	60 seconds			
EZ	TIMER MINS	60 MINUTES				□ 3 MINUTES			
£3	TIMER HOURS	12 HOURS				OII HOURS			
PH	DOMUS REMOTE PRIORITY				02	02			
Pr	START - STOP – PED – F.CL. REMOTE PRIORITY								
PE	T.B. INPUT PRIORITY								
PG	GATE PRIORITY				02	02			
οН	DOMUS REMOTE KEEP COUNTING								
or	START – STOP – PED – F.CL. REMOTE KEEPT COUNTING								
οE	T.B. INPUT KEEP COUNTING								

PRE-PROGRAMMED CONFIGURATIONS

T016P Shutter control board



		طاًا timed light	d2 flashing lamp	₫∃ electric lock	ब्राप alarm	d5 courtesy light	дБ gate open	gate closed	₫ ₿ disabled
HI	DOMUS REMOTE	OI ON/OFF				OI ON/OFF			
H2	DOMUS REMOTE	08 ON t1 Secs		OB ON t1 Secs	OB ON t1 Secs	🛮 🗷 ON t1 Secs			
H 3	DOMUS REMOTE					미의 ON t2 Mins			
НЧ	DOMUS REMOTE	10 ON t3 Hours				ON t3 Hours			
r /	START REMOTE								
<u> </u>	STOP REMOTE								
_3	PED. REMTOE								
r 4	F.CL. REMOTE								
E5	T.B. INPUT 5						03 OFF	OZ ON	
E6	T.B. INPUT 6						02 o n	03 OFF	
E 7	T.B. INPUT 7								
<u> </u>	TURINING ON							02 on	
<u> </u>	OPENING		06 FAST BL.		O3 OFF	02 on	02 on	O3 OFF	
<u> </u>	CLOSING		□ 7 SLOW BL.		O3 OFF	02 on	02 o n		
БY	PAUSE		02 on		O3 OFF	OZ ON	02 ON		
<u>6</u> 5	STOP		03 OFF		O3 OFF	🛭 🗷 ON t1 Secs	02 ON		
<u> 6</u>	CLOSING END		03 OFF			回回 ON t2 Mins	03 OFF	02 o n	
FI	TIMER SECS	90 SECONDS		□∃ SECONDS	D3 SECONDS	60 seconds			
£ 2	TIMER MINS	80 MINUTES				03 MINUTES			
E3	TIMER HOURS	12 HOURS				OI HOURS			
PH	DOMUS REMOTE PRIORITY				02	02			
Pr	START - STOP – PED – F.CL. REMOTE PRIORITY								
PE	T.B. INPUT PRIORITY								
PG	GATE PRIORITY				02	02			
οН	DOMUS REMOTE KEEP COUNTING								
<u>o</u> r	START – STOP – PED – F.CL. REMOTE KEEPT COUNTING								
οE	T.B. INPUT KEEP COUNTING								

NOTES:



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DOMUS USER MANUAL

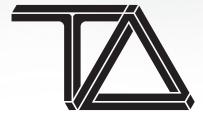
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