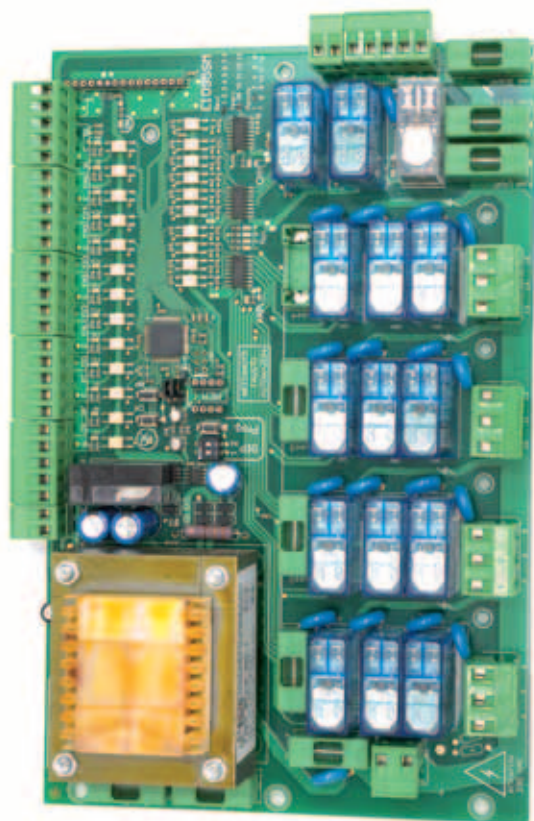


STU94

Control board for the control of n. 4 dissuaders (MAX 500 W)

Automation for automatic retractable DISSUADER



The BRAIN 4 control board is a self-learning electronic card for the control of four (4) dissuaders (from 1 to 4 dissuaders); it is possible to use this control board to manage even only one dissuader (example: cylindric retractable hydraulic dissuader CSA300).

This card MANAGES: the electrical valve, the head lights of the dissuader (bright device) and the traffic lights.

The control board is given with a basic setting for a quick and easy installation.

The command of every output is realized through 3 relays (all the relays used in the control board are GR-2 and 40 52 compatible with the current laws)

The stop of the engines happens through a defined time and with magnetic limit switches.

It is possible to make a sequential starting. Every engine has an independent limit switch.

IMPORTANT: the control board is equipped with a system:

- of **R.E.M. redundancies that ensure the good running of the dissuader even in presence of a breakdown.**

- opto-isolator to protect the dissuader from electrical disturbs

- with functional connection , that is, the inputs connected to mass to avoid inadvertent starts or missed stop in case of breakdown (which ensures ABSOLUTE SAFETY)

- for the management of the traffic lights, to ensure the opening of the dissuader with green light.

- of direct interruption of the rise relay (dissuader) through the input SIC2 it is possible through limit switches detach in "direct" way the spools of the relays that command the rise of the dissuader (the SIC2 input other than interrupt the rise relays inverts the movement of the dissuaders). In addition to the input SIC2 there is another input SIC1 that simply inverts the movement sending a signal to the microprocessor.

- of emergency for detach the electrical valve spools in case of emergency.

The complete setting comprehends all the functions for the management from 1 to 4 dissuaders:

Time of work of the dissuaders; sequential start of the engines; activation clock logic (predisposed for the insert of external clocks); time of wait of the traffic lights; time of automatic reclosing; self notice of limit switches; signal led in the control board for the diagnosis of the state of the inputs and outputs; keeping of hydraulic pressure; setting of radio codes dip and rolling code; description of the inputs: close, open, open+clock function, emergency stop, safety 1 (photocells, magnetic tracer), safety 2, limit switches dedicated to every dissuader; description of the outputs: auxiliaries, head lights, antenna, traffic lights, electrical valve, flashing light, engines.

PROGRAMMABLE RADIO FUNCTIONS: start-stop (SS), open (AP), close (CH), stop (STOP).

The electronic card is given with professional extractable terminal boards.

Descrizione Description	Un.	BRAIN 4
Article		STU94
Input power supply	Vac	230-50 Hz
Single motor output	Vac	N°4 x 230 (MAX 500 W) FUSE N°4x4A
Electrical valve output	Vac	230 (MAX 300 W)
Dissuader head lights output	Vcc	24 (MAX 120 mA)
Traffic lights output	Vac	230 (MAX 300 W)
Auxiliary power supply output	Vac	24 (MAX 800 mA)
Flashing light output	Vac	230 (MAX 25W) No flashing output
Courtesy light output		-
Control inputs	N.A.	- Open + TIME FUNCTION - Close - Stop - Open/ close/ Start-stop from transmitter
Stroke control inputs	N.C.	N°8 Limit switch inputs
Safeties inputs	N.C.	Sic 1: reversing movement from microprocessor Sic 2:direct bobine interruption (for going up)
Codes memory		160 dip switch 60 rolling-code (On request) mem. 128K
Additional memory		- 8000 dip switch - 2000 rolling-code
Radio		Extractable radio receiver
Radio-code	MHz	Self-learning 434 (Dip e Rolling-code)
Radio frequency	Mt.	100 -150
Card dimensions	mm	235x60x65
Box	mm	GW 44210 380x300x120 (IP56)
Respected rules		(EN60335-1), (EN60204-1), (D2004/108/CE), (EN12445)
Kinds of electronics		- OPTO-ISOLATOR . - REDUNDANT - DIRECT BOBINE INTERRUPTION