

GENERAL WARNINGS FOR PEOPLE SAFETY

THANK YOU

Thank you for purchasing a Fadini product.

Please read these instructions carefully before using this appliance. The instructions contain important information which will help you get the best out of the appliance and ensure safe and proper installation, use and maintenance. Keep this manual in a convenient place so that you can always refer to it for the safe and proper use of the appliance.

INTRODUCTION

This operator is designed for a specific scope of applications as indicated in this manual, including safety, control and signaling accessories as minimum required with Fadini equipment. \Box Any applications not explicitly included in this manual may cause operation problems or damages to properties and people. \Box Meccanica Fadini S.r.l. is not liable for damages caused by the incorrect use of the equipment, or for applications not included in this manual or for malfunctioning resulting from the use of materials or accessories not recommended by the manufacturer. \Box The manufacturer reserves the right to make changes to its products without prior notice. \Box All that is not explicitly indicated in this manual is to be considered not allowed.

BEFORE INSTALLATION

Before commencing operator installation assess the suitability of the access, its general condition and the structure.

Make sure that there is no risk of impact, crushing, shearing, conveying, cutting, entangling and lifting situations, which may prejudice people safety. Do not install near any source of heat and avoid contacts with flammable substances.

Keep all the accessories able to turn on the operator (transmitters, proximity readers, key-switches, etc) out of the reach of the children.
Transit through the access only with stationary operator. Do not allow children and/or people to stand in the proximity of a working operator.

To ensure safety in the whole movement area of a gate it is advisable to install photocells, sensitive edges, magnetic loops and detectors. Use yellow-black strips or proper signals to identify dangerous spots. Defore cleaning and maintenance operations, disconnect the appliance from the mains by switching off the master switch. i If removing the actuator, do not cut the electric wires, but disconnect them from the terminal box by loosening the screws inside the junction box.

INSTALLATION

All installation operations must be performed by a qualified technician, in observance of the Machinery Directive 2006/42/CE and safety regulations EN 12453 - ÉN 12445. \square Verify the presence of a thermal-magnetic circuit breaker 0,03 A - 230 V - 50 Hz upstream the installation.
Use appropriate objects to test the correct functionality of the safety accessories, such as photocells, sensitive edges, etc.

Carry out a risk analysis by means of appropriate instruments measuring the crushing and impact force of the main opening and closing edge in compliance with EN 12445.
Identify the appropriate solution necessary to eliminate and reduce such risks.
In case where the gate to automate is equipped with a pedestrian entrance, it is appropriate to prepare the system in such a way to prohibit the operation of the engine when the pedestrian entrance is used.
Apply safety nameplates with CE marking on the gate warning about the presence of an automated installation.

The installer must inform and instruct the end user about the proper use of the system by releasing him a technical dossier, including: layout and components of the installation, risk analysis, verification of safety accessories, verification of impact forces and reporting of residual risks.

INFORMATION FOR END-USERS

The end-user is required to read carefully and to receive information concerning only the operation of the installation so that he becomes himself responsible for the correct use of it. □ The end-user shall establish a written maintenance contract with the installer/maintenance technician (on -call). □ Any maintenance operation must be done by qualified technicians. □ Keep these instructions carefully.

WARNINGS FOR THE CORRECT OPERATION OF THE INSTALLATION

For optimum performance of system over time according to safety regulations, it is necessary to perform proper maintenance and monitoring of the entire installation: the automation, the electronic equipment and the cables connected to these.
□ The entire installation must be carried out by gualified technical personnel, filling in the Maintenance Manual indicated in the Safety Regulation Book (to be downloaded from requested the site or www.fadini.net/supporto/downloads). **Operator:** maintenance inspection at least every 6 months, while for the electronic equipment and safety systems an inspection at least once every month is required.

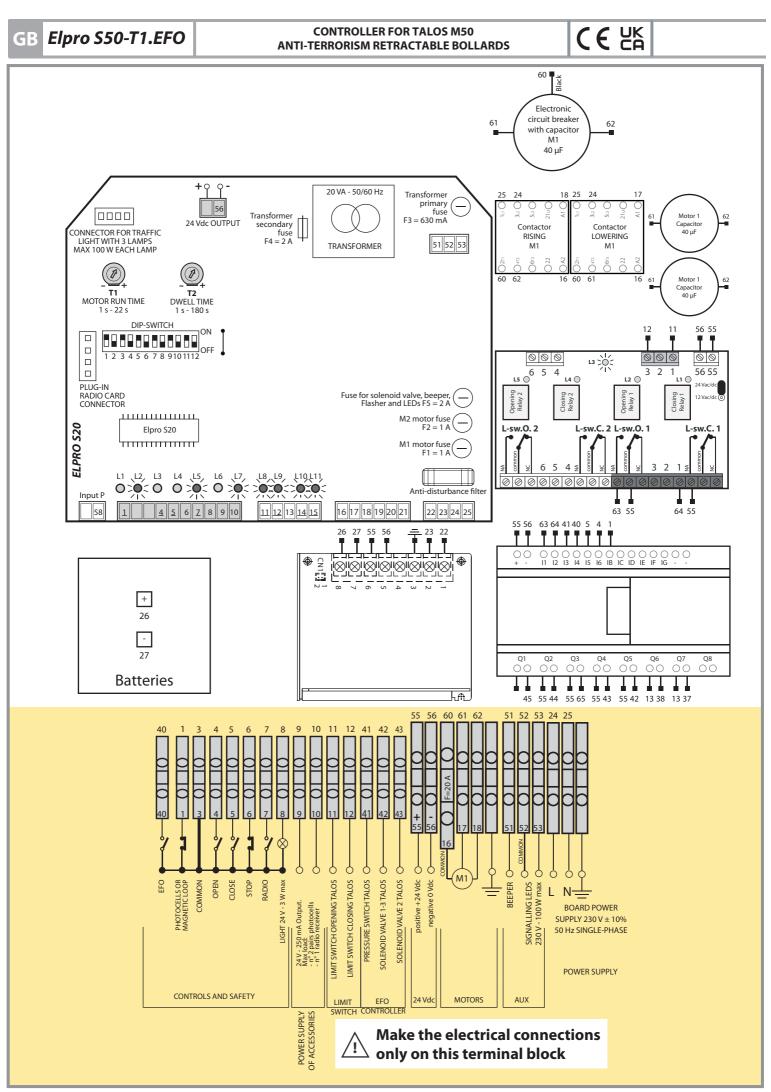
The manufacturer, Meccanica Fadini S.r.Í., is not responsible for non-observance of good installation practice and incorrect maintenance of the installation.

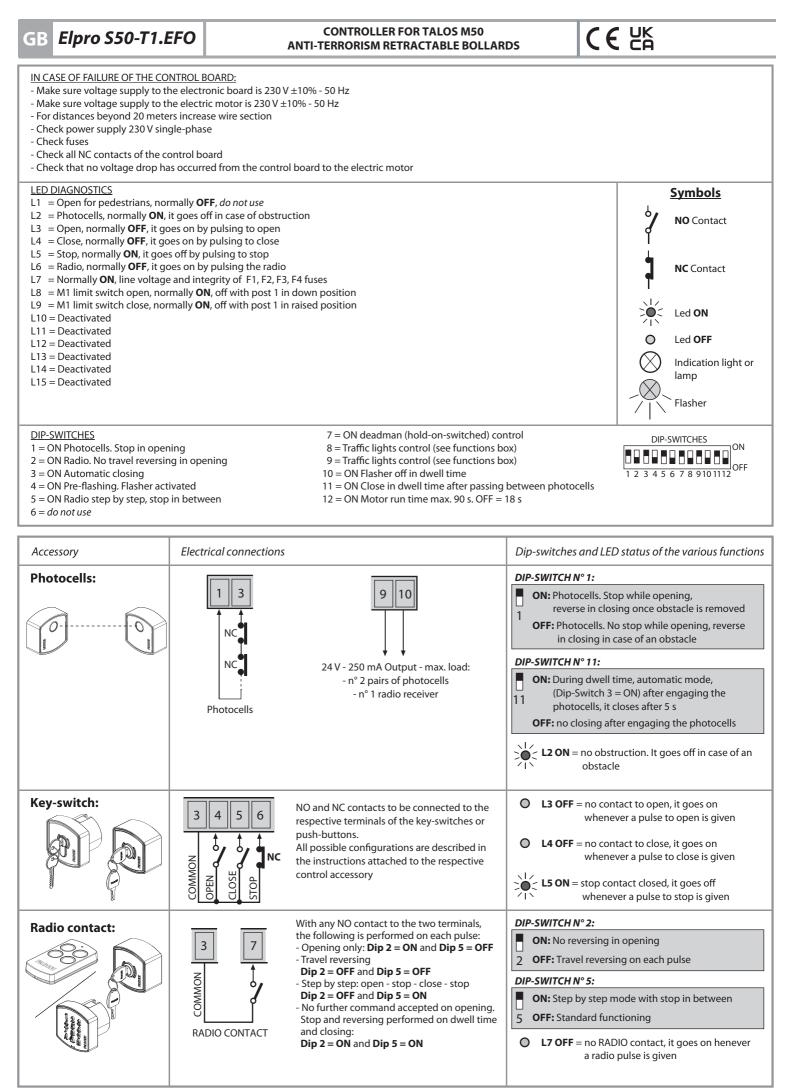
DISPOSAL OF MATERIALS

Dispose properly of the packaging materials such as cardboard, nylon, polystyrene etc. through specializing companies (after verification of the regulations in force at the place of installation in the field of waste disposal). Disposal of electrical and electronic materials: to remove and dispose through specializing companies, as per Directive 2012/19/UE. Disposal of substances hazardous for the environment is prohibited.



UE DECLARATION OF CONFORMITY (DoC)							
Manufacturer: Address:	Meccanica Fad Via Mantova, 1	ini S.r.l. 77/A - 37053 Cerea - VR - Italy					
declare that the DoC is issued under our sole responsibility and belongs to the following product:							
Control unit model ELPRO S50-T1.EFO							
is in conformity with the relevant Union harmonisation legislation: - Electromagnetic Compatibility Directive 2014/30/UE - Low Voltage Directive 2014/35/UE							
Cerea, 13/10/201	7	Meccanica Fadini S.r.l. Responsible Manager					





GB Elpro S50-T1.EFO

CONTROLLER FOR TALOS M50 ANTI-TERRORISM RETRACTABLE BOLLARDS



· · · · · · · · · · · · · · · · · · ·		ANTI-TERRORISM RETRACTABLE BOLLAR			
Accessory Electrical connect		ns	Dip-switches	and LED status o	f the various functions
24 V - 3 W max. Light indicating bollard in motion :	COMMON	Light on = post down, gateway cleared Light off = post up, gateway closed Flashing 0,5 s (fast) = post moving up Flashing 1 s (normal) = post moving down With an external time clock: 2 short flashes followed by a longer pause			
24 Vdc output:	+ , , , - 55 56 200 mA for the accesso	Output for any possible 24 Vdc application			
Motors:	16 17 18 NOW M1 Bollard 1 MOTOR 1	Important: if the bollard does not operate in phase with the open/close commands as required, swap connections to 17/18.	12 OFF: Moto	r run time max. 90 or run time max. 18 D t T1 RUN TIME D	
Limit switches:		imit switch opening TALOS grey cable - white wire	L9 ON = 1 L9 ON = 1 L10 ON = L10 ON = L11 ON = L12 ON =	it goes off with post 1 it goes off with post 1 = it goes off with post = it goes off with post = it goes off with post = it goes off with post	up 2 down 2 up 3 down
External flasher:	51 52 53 NOWWOO 230 V - 100 W max	It is possible to connect an external flashing lamp to the bollard in addition to the incorporated LED lights. The flasher will be on during the rising and lowering movements and during the dwell time (if pre-selected)	10 auton OFF: Flash	ashing re-flashing	
Signalling LED lights:	LEDs or BEEPER COMMON	Output for the LED lights that are always on blinking during the rising and lowering movements of the post and with the post in standing position. They go off with post in down position.			
Beeper, post in motion:	LED. COMMON	The acoustic device is inside the post and is on only during the rising and lowering movements of the post.			
Board power supply:		Elpro S50-T1.EFO board and PC controller power supply BOARD POWER SUPPLY 230 V ± 10% 50 Hz SINGLE-PHASE			

GB Elpro S50-T1.EFO

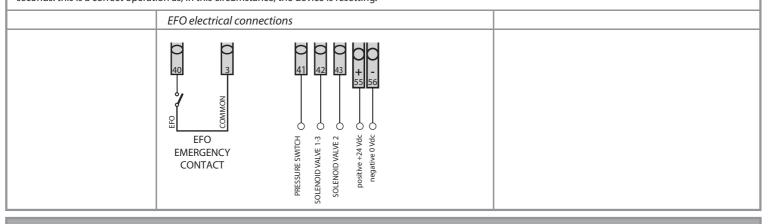
CONTROLLER FOR TALOS M50 ANTI-TERRORISM RETRACTABLE BOLLARDS



EFO: Emergency Fast Operation

The EFO emergency device allows for the bollard to rise quickly in no more than 1,5 seconds and ensures maximum protection in situations of extreme necessity and danger. Being an emergency device, it should be used only in case of real need; in fact, when it is activated, all the safety devices present in the system and installed with it are deactivated, potentially causing a situation where damage to people and things may occur in the immediate proximity of the bollard.

Meccanica Fadini does not take any responsibility for the improper use of this device and the possible damage caused to people and properties during the use of it. The activation of EFO is by means of an emergency button (not supplied with the equipment) and in case of power failure its operation, ascent rate higher than the standard one, is guaranteed for a short period (about an hour). Once activated, the EFO device is able to reset itself for a possible next activation (no external action of a physical operator is required). It should be noted that, when the bollard reaches the deterrent position (cylinder fully raised), the hydraulic unit continues to work for a few seconds: this is a correct operation as, in this circumstance, the device is resetting.



FUNCTIONS							
Description	Dip-switches and LED status of the various functions						
Automatic / semiautomatic: Automatic cycle: after a pulse to open, the bollard goes of time lasts, as pre-set by T2 trimmer, and on expiring of suc Semi-Automatic cycle: after a pulse to open, the bollard of Another pulse is needed to close the gateway.	DIP-SWITCH N° 3: ON: Automatic closing 3 OFF: No automatic closing. Semi-automatic mode T2 DWELL TIME 1 s - 180 s						
Deadman control: Open and Close operations are achieved "by holding a sw self-holding is involved). Therefore, a physical attendance the entire cycle of movements until either the button or ke	DIP-SWITCH N° 7: ON: Deadman control 7 OFF: Standard operating mode						
External time clock (optional): CLOCK: the Elpro S50-T1.EFO controller allows for a normal post to rise and lower. Connections: parallel connect the NO contact of the clock and set the controller to automatic mode by Dip-Switch n' How it works: set the clock to the required opening time. O lowered (the indication light emits 2 short flashes followe command/pulsing (even by remote control) is not accepted clock is expired. On expiring of it, and after the pre-set dwa automatically.	DIP-SWITCH N° 3: ON: Automatic closing 3 OFF: No automatic closing. Semi-automatic operating mode T2 DWELL TIME 1 s - 180 s						
 Plug-in traffic lights card (optional): The power supply of the traffic lights card is independent from that of the electronic control board: 230 V - 50 Hz with an output of 100 W at 230 V ea. lamp. 24 V with an output of 25 W each lamp. 12 V with an output of 22 W each lamp. Functioning applies also to traffic lights with 2 lamps, red and green (Dip Switch 8 = OFF and 9 = OFF). Functioning logic: GREEN Light = post down, gateway OPEN RED Light = post moving or standing, gateway CLOSED YELLOW Light = it switches on before green turns to red light. 	RED YELLOW GREEN	DIP-SWITCHES N° 8 and N° 9: Dip-Switch 8 = OFF and 9 = OFF Yellow turns on for 0 s and after 0 s red turns on and the post starts rising immediately Dip-Switch 8 = ON and 9 = OFF Yellow turns on for 2 s, then red turns on and after 2 s the post starts rising Dip-Switch 8 = ON and 9 = OFF Yellow turns on for 2 s, then red turns on and after 2 s the post starts rising Dip-Switch 8 = OFF and 9 = ON Yellow turns on for 6 s, then red turns on and after 5 s the post starts rising Dip-Switch 8 = ON and 9 = ON Yellow turns on for 10 s, then red turns on and after 7 s the post starts rising					

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