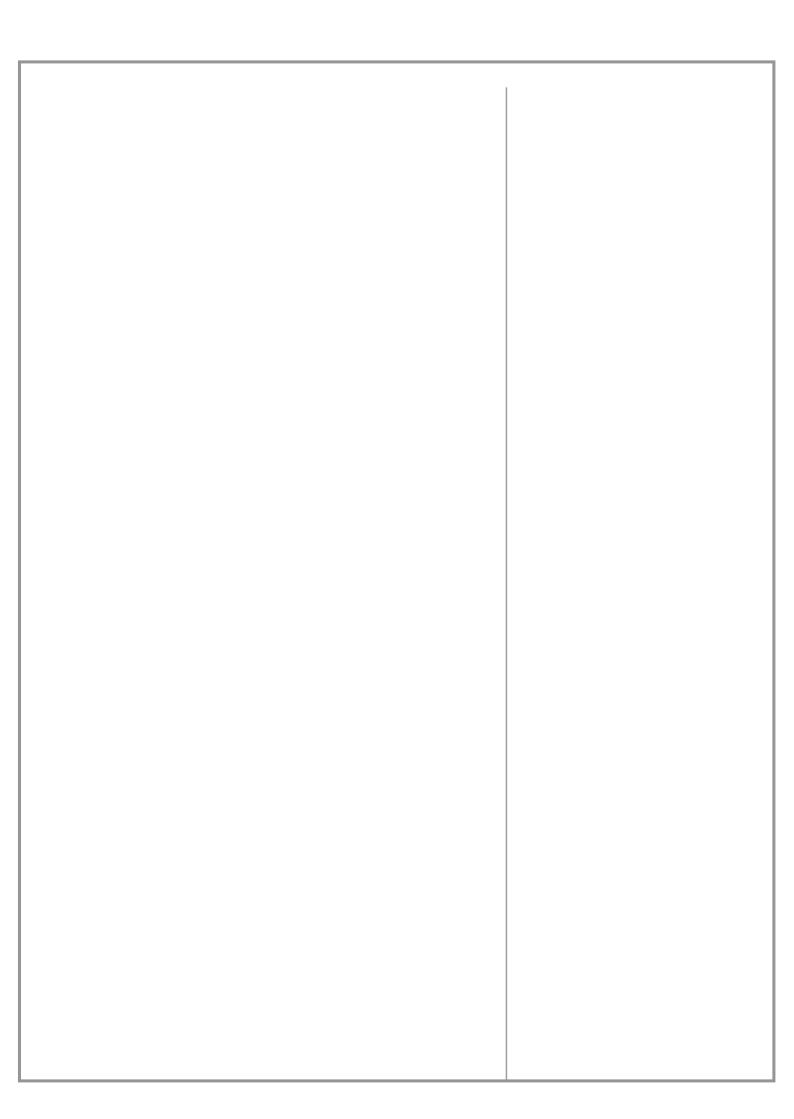
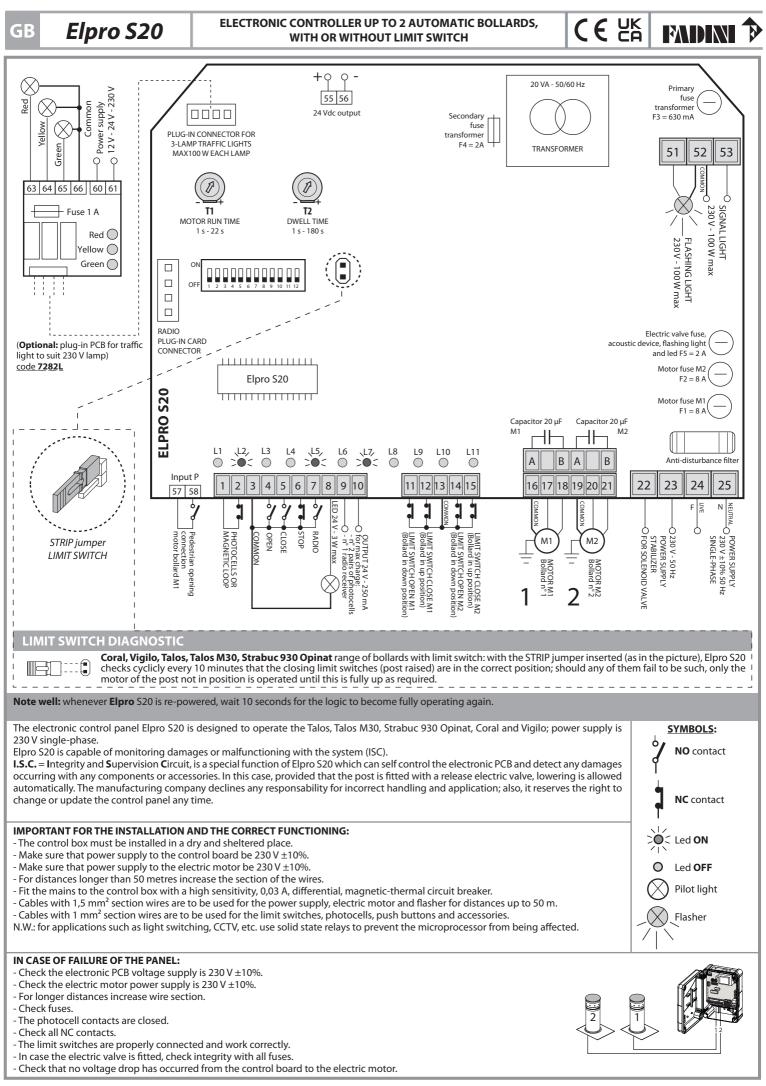
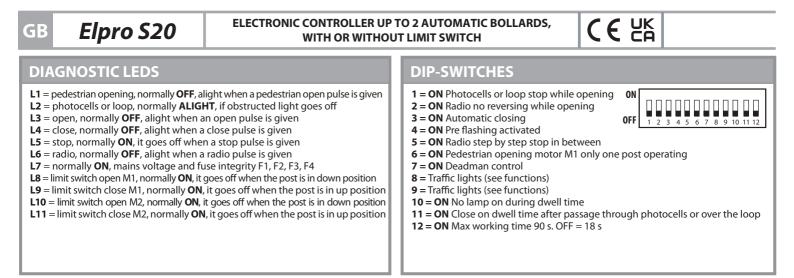
Elp		AMMATORE ELETTRONICO PER LA GESTIONE FINO A 2 DISSUASORI APARSA, CON O SENZA FINECORSA	
		RONIC CONTROLLER UP TO 2 AUTOMATIC BOLLARDS, DR WITHOUT LIMIT SWITCH	
		AMMATEUR ELECTRONIQUE POUR LE CONTROLE JUSQU'À BORNES ESCAMOTABLES, AVEC OU SANS LE FIN DE COURSE	
		ONISCHE STEUERUNG ZUR KONTROLLE BIS ZU 2 AUTOMATISCH IKBAREN POLLER, MIT ODER OHNE ENDSCHALTER	
		AMADOR ELECTRÓNICO PARA LA GESTIÓN DE HASTA DOS DOS RETRÁCTIL, CON SIN FINAL DE CARRERA	
		ONISCHE PROGRAMMEERINRICHTING VOOR HET BEHEER AXIMAAL TWEE VERZINKBARE PALEN, MET OF ZONDER EINDSCHAKELAARS	
Π	- FINO A 2 DISSUASORI A SCOMPARSA - APERTURA PEDONALE - PREDISPOSTO PER SEMAFORO A 3 LUCI - AUTOMATICO O SEMIAUTOMATICO - COLLEGAMENTI SEPARATI PER ELETTROVALVOLA	- SISTEMA DI SUPERVISIONE INTEGRITÀ C.S.I. - PREDISPOSIZIONE PER OROLOGIO ESTERNO - FUNZIONE PASSO-PASSO - UOMO PRESENTE	
GB	- UP TO 2 BOLLARDS - STEP-BY-STEP FUNCTION - PEDESTRIAN OPENING - PREPARED FOR 3 LAMPS TRAFFIC LIGHTS - AUTOMATIC OR SEMI- AUTOMATIC	- SEPARATE CONNECTIONS FOR ELECTRIC VALVE - EXTERNAL TIME CLOCK - DEADMAN CONTROL - ISC SYSTEM i.e. INTEGRITY SUPERVISION	
FR	 JUSQU'A 2 BORNES ESCAMOTABLES OUVERTURE PIETONS PREPARE POUR FEU DE CIRCULATION A 3 AMPOU AUTOMATIQUE OU SEMIAUTOMATIQUE RACCORDEMENTS SEPARES POUR ELECTROVANN 	- HOMME MORT	
DE	- BIS ZU 2 VERSENKBAREN ABSPERRPOLLERN - GEHTÜRFUNKTION - FÜR AMPEL MIT 3 LICHTERN VORGESEHEN - AUTOMATIK- ODER HALBAUTOMATIKBETRIEB - GETRENNTE ANSCHLÜSSE FÜR ELEKTROVENTIL	- SYSTEM ZUR KONTROLLE DER INTEGRITÄT (I.Ü.S.) - FÜR EXTERNE UHR VORGESEHEN - IMPULSBETRIEB - TOTMANN-BETRIEB	
	- HASTA 2 BARRERAS ESCAMOTEABLES - ABERTURA PEATONAL - PREDISPUESTO PARA SEMÁFORO DE 3 LUCES - AUTOMÁTICO O SEMIAUTOMÁTICO - CONEXIONES SEPARADAS PARA ELECTROVÁLVUL	- SISTEMA DE SUPERVISIÓN INTEGRIDAD C.S.I. - PREDISPOSICIÓN PARA RELOJ EXTERNO - FUNCIÓN PASO-PASO - HOMBRE PRESENTE A	
NL	 MAXIMAAL 2 VERZINKBARE PALEN VOETGANGERSDOORGANG VOORBEREID VOOR STOPLICHT MET 3 LICHTEN AUTOMATISCH OF HALFAUTOMATISCH GESCHEIDEN VERBINDINGEN VOOR MAGNEETKLE 	- BEWAKINGSSYSTEEM INTEGRITEIT C.S.I. - VOORBEREIDING VOOR EXTERNE KLOK - STAP-VOOR-STAP FUNCTIE - DODEMANSFUNCTIE EP	







LOW VOLTAGE ELECTRICAL CONNECTIONS

Accessory	Electrical connections	Dip-switch setting and LED indication of functions	
Photocells or loop detectors:	I Image: product stress Photocells or Loop detectors 24 Vac output max load 2 pairs photocells 1 radio receiver	 DIP-SWITCH N° 1 and N° 11: ON: photocells or loop stop while opening, reverse on closing once obstacle is removed OFF: photocells or loop do not stop while opening, reverse on closing in caseof an obstacle ON: during dwell time, automatic mode (dip-switch 3 = ON) after engaging the photocellsor loop, it closes 5 s later OFF: it does not close after engaging the photocells or loop Comparison of the photocells or loop Comparison of the photocells or loop Comparison of the photocells or loop 	
Key-switch:	NO and NC contacts to be connected to the respective terminals in the key-or button-switches. All of the possible setting combinations are described in the instructions sheets included with the respective control accessories	 L3 OFF = no OPENING contact, it goes on whenever an opening pulse is given L4 OFF = no CLOSING contact, it goes on whenever a closing pulse is given L5 ON = STOP contact closed, it goes off whenever a stop pulse is given 	
Radio contact (step by step mode):	 Opening only: dip 2 = ON and dip 5 = OF Gate travel reversing by any pulse dip 2 = OFF and dip 5 = OFF Step by step: open-stop-close-stop dip 2 = OFF and dip 5 = ON No new pulse is accepted in opening. In dwell phase and in closing any new pulses tops and reverses gate travel: dip 2 = ON and dip 5 = ON 	 F DIP-SWITCH N° 2 and N° 5: ON: it does not reverse on opening 2 OFF: it reverses at any pulse ON: step by step with stop in between 5 OFF: standard operation C L6 OFF = no RADIO contact, it goes on by any radio pulse 	
Indication lamp output 24 V max 3 W:	Lamp ON = post in down position, free past Lamp OFF = post in up position, closed pa Flashing 0,5 s (fast) = rising post Flashing 1 s (normally) = lowering post		
24 Vdc output:	+ · · · - 55 56 Output for 24 Vdc applications		

ELECTRICAL POWER CONNECTIONS					
Accessory	Electrical connections	Dip-switch setting and LED indication of functions			
Electric valve power supply:	22 23 24 25 230 V power supply for 24 Vdc solenoid valve stabilizer				

GB Elpro S20

ELECTRONIC CONTROLLER UP TO 2 AUTOMATIC BOLLARDS, WITH OR WITHOUT LIMIT SWITCH

LIMIT SWITCH CONNECTION		
Accessory	Electrical connections	Dip-switch setting and LED indication of functions
Old type limit switch NC: • Strabuc 930 Opinat and in the previous versions of: • Talos - Talos M30 • Coral - Vigilo with LEDs • Strabuc range	LIMIT SWITCH CLOSE M2 (Post in up position) (Post in down position) (Post in down position) (Post in up position) LIMIT SWITCH CLOSE M1 (Post in up position)	With the STRIP jumper inserted (as in the picture), Elpro S40 checks cyclicly every 10 minutes that the closing limit switches (post raised) are in the correct position; should any of them fail to be such, only the motor of the post not in position is operated until this is fully up as required. N.W.: the limit switches for not in use bollards are to stay blank. <u>Do not bridge them.</u>
New limit switches hall effect for CORAL - VIGILO as standard from 2019 • Coral - Vigilo range	5 - O white wire 5 - O white wire 1 - O LIMIT SWITCH + 24 Vdc - D wellow wire - O yellow wire - O ye	With the STRIP jumper inserted (as in the picture), Elpro S40 checks cyclicly every 10 minutes that the closing limit switches (post raised) are in the correct position; should any of them fail to be such, only the motor of the post not in position is operated until this is fully up as required. N.W.: the limit switches for not in use bollards are to stay blank. <u>Do not bridge them.</u>
New limit switches hall effect for TALOS as standard from 2018 • Talos range - Talos M30	GROUND LIMIT SWITCH blue and gray cables - green wires LIMIT SWITCH + 24 Vdc blue and gray cables - brown wires blue and gray cables - brown wires blue cable - white wire blue cable - white wire blue cable - white wire gray cable - white wire gray cable - white wire gray cable - white wire gray cable - white wire blue cable - white wire gray cable - white wire blue cable - white wire	With the STRIP jumper inserted (as in the picture), Elpro S40 checks cyclicly every 10 minutes that the closing limit switches (post raised) are in the correct position; should any of them fail to be such, only the motor of the post not in position is operated until this is fully up as required. N.W.: the limit switches for not in use bollards are to stay blank. <u>Do not bridge them.</u>

ELECTRONIC CONTROLLER UP TO 2 AUTOMATIC BOLLARDS, WITH OR WITHOUT LIMIT SWITCH



ELECTRICAL POWER CONNECTIONS Flectrical connections Dip-switch setting and LED indication of functions Accessorv Important: when doing the electric power connections it is **DIP-SWITCH N° 12:** Motors: better to connect only one motor and its respective limit ON: motor run time max 90 s switches. Put the posts into phase one by one. 12 OFF: motor run time max 18 s 20 µF additional capacitor 20 uF additional capacitor in case of power shortage in case of power shortage for Motor M2 for Motor M1 T1 MOTOR RUN TIME 1 1 s - 22 s В T2 DWELL TIME 16 17 19 20 21 18 1 s - 180 s M1 M2 MOTOR M1 MOTOR M2 Post n° 1 Post n° 2 **External flashing lamp:** DIP-SWITCH N° 4 and N° 10: It is possible to connect both the 51 52 53 external flashing lamp and the **ON**: pre-flashing intermittent signal led lights which COMMON are on only during the rising and 4 OFF: no pre-flashing lowering movement. The cable for the connection is the one labelled **ON**: flashing light out of service on dwell time. as flashing lights cable. Automatic mode 10 OFF: light flashes on dwell time. Automatic mode 230 V - 100 W max Signal led lights: Output for intermittent signal led 51 lights during the movement both 52 53 rising and lowering and also on BLUE dwell in up position: the lights are COMMON BROWN off only when the bollard is in down position. Connect the **blue-common** wire and the brown wire of the bollard Signal led lights output flashing light cable. 230 V - 100 W max Acoustic signal "beeper" The acoustic signal device inside during movement: 53 the bollard is active duringrising 51 52 and lowering. The connection wires BLACK BLUE are the **blue-common** and the COMMON black one of the flashing light cable. Acoustic signal device 230 V - 100 W max PCB power supply: Electronic programmer power 22 23 24 25 supply. NEUTRAL Ň F N

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 \bigcirc PCB power supply 230 V ±10% 50 Hz single phase Elpro S20

c:

ELECTRONIC CONTROLLER UP TO 2 AUTOMATIC BOLLARDS, WITH OR WITHOUT LIMIT SWITCH

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