

TECHNICAL SPECIFICATION

CSG 10300 Series Boom Barriers



INVENTION NOT CONVENTION

ELECTRONIC CONTROL MODULE

Model:	MBB Combo Logic Controller CL400 Series
Type:	Boxed removable Logic Controller/Closing Detector combination with Motor drive circuitry.
Technology:	Digital microcontroller based logic
Housing:	Insulated ABS enclosure
Mounting Method:	Single point fixed bracket
Logic Controller Combo:	Plugged into 11 pin base on motherboard
Enclosure:	
Mains Input	
Connector:	3 pin European mains plug
Isolation:	Rocker switch
Protection:	Series 2 Amp 5 x 20 slow blow fuse
Motor Output	
Type:	Direct motor drive via 16 Amp relay
Starting Capacitor:	4uF 440VAC (20uF for 115V motor)
Connector:	4 pin pluggable
I/O Connectors	
Type:	Pluggable
Terminals:	Screw type
Conductor size:	2.5mm ² max
Programming Pod	
Display:	16 x 2 line LCD
Modes:	Mode button. Left/down and Right/up buttons
Connection:	1m cable with mini jack plugs

CABINET

Material:	2.0 mm Galvanized steel. 3CR12 Stainless and Aluminium optional
Finish:	Epoxy powder coated (exterior grade)
Standard Colours:	White, Yellow. Other colours on request
Dimensions:	885mm H x 345mm W x 380mm D
Access	
Side Door:	690mm x 260mm hinged and lockable
Lid:	Top lid, internally double latched, removable
Mounting Method:	Bolt down using up to four 16mm x 100mm anchor bolts
Weight:	56Kgs



PROGRAMMING PARAMETERS AVAILABLE

Open/Close on power up:	Select barrier to open or close on power up
Relay 2:	Select relay 2 function
Detector On and Off Filter time:	Select delay of detection or off detection
Open/Close delay time:	Select delay of opening or closing
Detect/Un-detect Sens:	Select Sensitivity settings
Presence Time:	Select Presence times
Positive/Negative Compensation:	Select compensation
Input 1 and 2:	Select Open/Close/Toggle command Select relay N/O or N/C Select Pulse or Permanent trigger Select Memory on or off
Pin 11 Functions:	Select pin 11 as an input
Barrier run time:	Selectable, auto-reverse (Roll-back time)
Auto close:	Selectable, auto-close
Input Isolation:	Opto isolated, 1500VAC for 1 min
Input Duration:	100 milliseconds minimum
Outputs	
Ticket Vend Interlock:	Prevents issue of tickets from Ticket Dispenser, set on relay 2 function

LED Indicators

Status:	Raise, Auto, Lower
Input 1:	Up LED reflects status of Input 1
Input 2:	Down LED reflects status of Input 2
Detector:	Both LEDs reflect detect

Mode Button Functions

RAISE (Up):	Raise or raise override
AUTO:	Automatic operation (both LED's on)
LOWER (Down):	Lower or lower override

Counters via Programming Pod

Detector:	All detector counts
Input 1:	All Input 1 counts
Input 2:	All Input 2 counts
Raise (Up):	All raise counts
Lower (Down):	All lower counts
Cycle:	Total of barrier raise and lowered
Power Up:	Total number of power up's

BARRIER ARM

Material:	Extruded Aluminium tubing
Finish:	White epoxy coated, spiral wrapped with 50mm red reflector tape
Weight:	0.81 kg's per meter
Lengths	
MBB-300:	Up to 3 meters
MBB-450:	3 meters to 4.5 meters
MBB-600:	4.5 meters to 6 meters
Dimensions:	76.2mm OD. X 1.27mm WT
Articulation:	Optional articulated knuckle (Jack-Knife) assembly available for MBB-300 models only.
Arm Height:	Centre of arm to barrier base 820mm



DRIVE MECHANISM

Motor:	Torque motor/gearbox combination
Output Torque:	24Nm for 3 and 4,5m, 36Nm for 6m
Shaft Speed:	10 rpm (3 and 4,5m) 7,5 rpm (6m H/D)
Raise/Lower time Approx:	2.3 seconds (10 rpm) 3,5 seconds (7,5 rpm)
Mechanism Mounting:	Single removable drive motor assembly
Arm Arc Travel:	90 degrees
Arm Drive:	Offset lever arm drive reduces 180 degree travel to 90 degree travel at arm pivot, over centre locked in raised and lowered position while under power
Arm Damping:	Polyurethane rubber end stops
Arm Counterbalance:	Dual adjustable counterbalance tension springs
Reversible Arm:	Can be configured for reverse operation
Power Fail:	Automatic arm raise on power fail

POWER REQUIREMENTS

Voltage:	230VAC +/- 10%. (Optional 115VAC)
Frequency:	50 Hz single phase, (60 Hz 115V)
Current Consumption:	80 VA typical
Environmental:	Splash proof housing IP55. Conformal Coating on printed circuit boards
Operating Temperature:	-40 to 85 centigrade

INDUCTIVE LOOP DETECTORS

Functions:	Closing detector part of Combo Logic Spare socket for arming or auxiliary detector
Tuning Method:	Automatic environmental tracking
Type:	METLD 300/400 Series



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