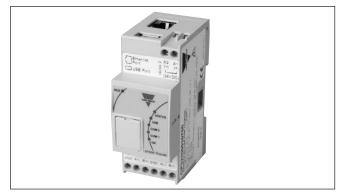
Dupline[®] Carpark Master Zone Counter (MZC) Module Type GP32950030700



Product Description

The GP32950030700 is a programmable unit specially designed for Carpark installations. This controller includes dedicated functions for counting based on the count sensors connected to the L1 bus. A web server in the controller gives the user a unique opportunity to modify or

monitor the zone count system using a smartphone or other ethernet based equipment. The GP32950030700 has no independent functions and only works together with channel the generator GP32900003700.

- Controller in the Dupline® zone counting system
- Micro Linux PC with ethernet port and web server
- Connects up to 120 count sensors via Dupline[®] L₁ 3-wire bus
- Dupline® ultrasonic carpark sensors can be used directly on the L₁ bus
- Loop detectors or photoelectric sensors can be used when connected to a Dupline® L1 input module
- Manages up to 3840 parking spaces in multiple zones
- Each zone can have multiple entry and exit points
- Easy configuration, monitoring and count adjustment via web server
- Mixed systems with zone counting and single space detection possible
- Option to detect the split between handicap and standard spaces occupancy • Optional PC software for real-time monitoring and his-
- torical occupancy data analysis





Туре	Selection
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Housing	Mounting	Supply: 24 VDC ± 20%
2 DIN	DIN-rail	GP32950030700

Supply Specifications

Power supply	Overvoltage cat. II	Reverse polarity protection	Yes
Rated operational voltage	(IEC 60664-1, par. 4.3.3.2) 15 to 24 VDC ± 20%	Connection	A1 (+) and A2 (-)
Rated impulse voltage	500V (1,2/50µs) (IEC 60664-1,	Power off delay	1 s
	tab. F.1)		
Rated operational power	5 W		

Main Hardware Characteristics

Memory	Micro SD not in use	Auxiliary bus Right side	HS BUS
Communication ports			Compatible with GP32900003700
RS485 Ethernet	2 ports 1 port, for Internet/LAN connection	USB ports Mini USB Host function	Only for internal use Not in use

RS485 Communications Ports

Number of ports Purpose	2 COM1: Modbus slave COM2: Modbus slave	Data format	Selectable: 1 start bit, 7/8 data bit, no/odd/even/ par- ity,1/2 stop bit
Туре	Multidrop, bidirectional	Baud-rate	9600 bits/s
Connections	2-wire. Max. distance 1000m	Insulation	See the table "Insulation between inputs and out-
Protocol	MODBUS RTU		puts"

Ethernet Port

Rated inputs IP configuration	HTTP Static IP / Netmask /	Connections	RJ45 10/100 BaseTX Max. distance: 100m
DNS	Default gateway	Insulation	See "Insulation between
DINS	Primary and secondary DNS as a static or dynamic management (using DHCP server if configured)		inputs and outputs" table.
WEB server	Port 80N. of connections 20		

HS Bus Specs (right side)

Bus type	RS485 high speed bus	Note:	The two GP32900003700
Function	Connection to master channel generator module GP32900003700		modules which drive the L1 and L2 buses must be connected on the right side
Connection	By local bus on the right side		of the GP32950030700

LEDs Indication

Green LED: ON ON: power ON	Flashing: 200ms ON 200ms OFF, communications OK	BUS OFF: no communication is	Blue LED: USB Not in use
OFF: power OFF	COM 2 OFF: no communications on	present on the HSbus ON: communication error on	Red LED: STATUS
Yellow LEDs: COM 1 OFF: no communications on RS485 A Flashing: 200ms ON 600ms OFF. no answer from the	RS485 B Flashing: 200ms ON 600ms OFF, no answer from the slave Flashing: 200ms ON 200ms	HSbus Flashing: communication OK	Red LED: STATUS Not in use
slave	,		

Based Insulation between Inputs and Outputs

Type of input/output	DC Power supply	RS485 - COM 1	RS485 - COM 2	Ethernet	USB port "H"
DC Power supply	-	2kV	2kV	0.5kV	0kV
RS485 - COM 1	2kV	-	0.5kV	2kV	2kV
RS485 - COM 2	2kV	0.5kV	-	2kV	2kV
Ethernet (LAN/Internet)	0.5kV	2kV	2kV	-	0.5kV
USB port "H" (Host)	0kV	2kV	2kV	0.5kV	-
0kV Inputs / outputs are not insulated					

0kV	Inputs / outputs are not insulated
	EN61010-1, IEC60664-1 - over-voltage category III, pollution degree 2, double insulation on systems with max. 300Vrms to ground
0.5kVrms	The insulation is functional type

General Specifications

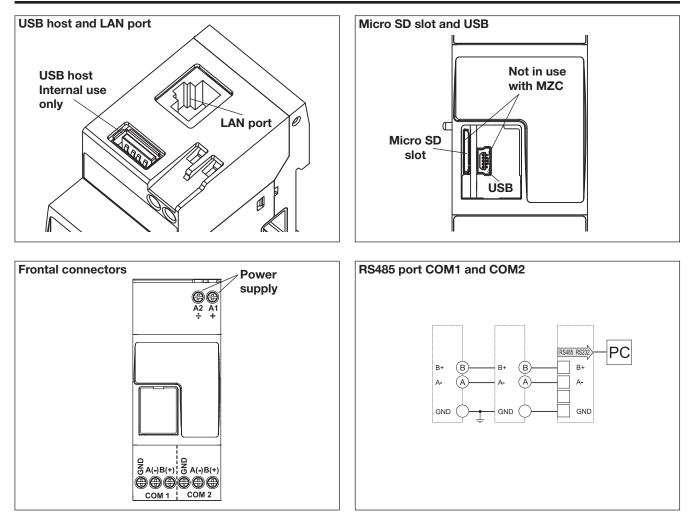
Operating temperature	-20 to +50°C (-4°F to 122°F)	Mounting	DIN-rail
	(R.H. < 90% non-condens- ing @ 40°C)	Approvals	cULus, according to UL60950 UL notes:
Storage temperature	-30 to +70°C (-22°F to 158°F) (R.H. < 90% non-condens- ing @ 40°C)		Max room temperature: 40°C Equipment must be supplied by a separately certified NEC
Overvoltage category	Cat. III (IEC 60664, EN60664) For inputs from string:	CE Marking	class 2 (LPS) power unit. Yes
	equivalent to Cat. I, rein- forced insulation.	EMC Immunity	EN 61000-6-2
Dielectric strength	4000 VAC RMS for 1 minute	- Electrostatic discharge	EN 61000-4-2
Noise rejection CMRR	65 dB, 45 to 65 Hz	- Radiated radiofrequency - Burst immunity	EN 61000-4-3 EN 61000-4-4
Standard compliance Safety	IEC60664, IEC61010-1 EN60664, EN61010-1	 Surge Conducted radio frequency Power frequency magnetic fields 	EN 61000-4-5 EN 61000-4-6 EN 61000-4-8
Protection degree Front Screw terminals	IP40 IP20	- Voltage dips, variations, interruptions Emission	EN 61000-4-11 EN 61000-6-3
Housing Dimensions (WxHxD) Material	17.5 x 90 x 67 mm Noryl, self-extinguishing: UL 94 V-0	 Conducted and radiated emissions Conducted emissions Radiated emissions 	CISPR 22 (EN55022), cl. B CISPR 16-2-1 (EN55016-2-1) CISPR 16-2-3 (EN55016-2-3)
Weight	Approx. 150 g (packing included)		

Connections

Ethernet	RJ-45 connector (10/100Base-T)	Power supply Cable cross-section area	2 screw terminals 1.5 mm ² max
USB	High speed USB 2.0	Screws tightening torque	Min. 0.4 Nm, Max. 0.8 Nm
RS485 Cable cross-section area Screws tightening torque	3 screw terminals per port 1.5 mm ² max Min. 0.4 Nm, Max. 0.8 Nm		



Connections



Mode of Operation

The GP32950030700 is part of the GPMZC-SET and it has no function without the channel generators GP32900003700. Information regarding installation, programming and handling the GP32950030700 can be found n the datasheet GPMZC-SET or the MZC installation manual.

Dimensions

