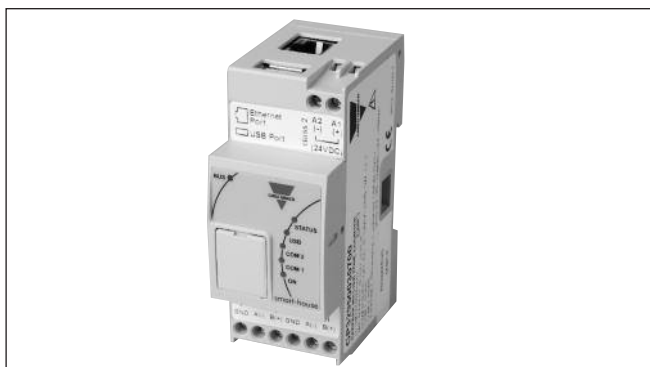


# Dupline® Carpark Master Zone Counter (MZC) Module Type GP32950030700



- Controller in the Dupline® zone counting system
- Micro Linux PC with ethernet port and web server
- Connects up to 120 count sensors via Dupline® L<sub>1</sub> 3-wire bus
- Dupline® ultrasonic carpark sensors can be used directly on the L<sub>1</sub> bus
- Loop detectors or photoelectric sensors can be used when connected to a Dupline® L<sub>1</sub> 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 historical occupancy data analysis

## 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 L<sub>1</sub> 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 the channel generator GP32900003700.

## Ordering Key

**GP32950030700**

## Type Selection

### Housing

2 DIN

### Mounting

DIN-rail

### Supply: 24 VDC ± 20%

GP32950030700

## Supply Specifications

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

## Main Hardware Characteristics

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

RS485 Communications Ports

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

Ethernet Port

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

HS Bus Specs (right side)

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

LEDs Indication

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

## 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
2kVrms	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

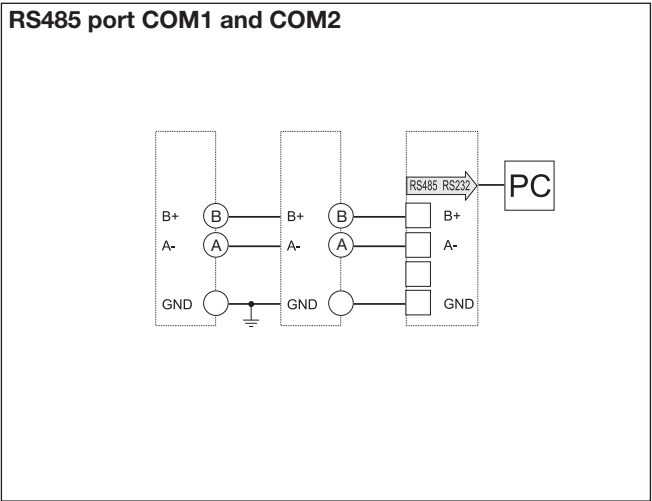
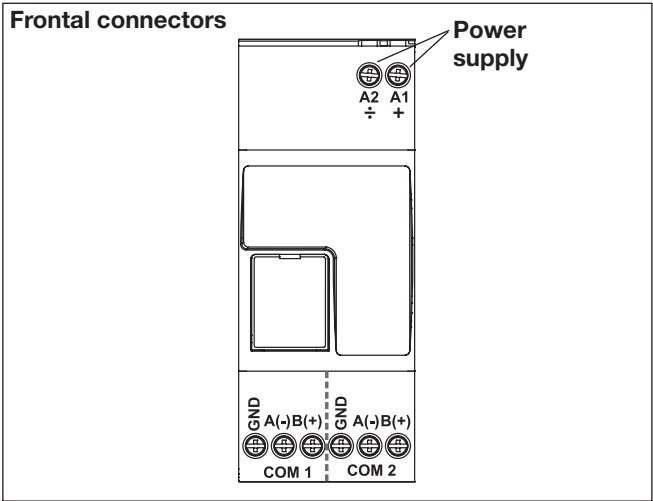
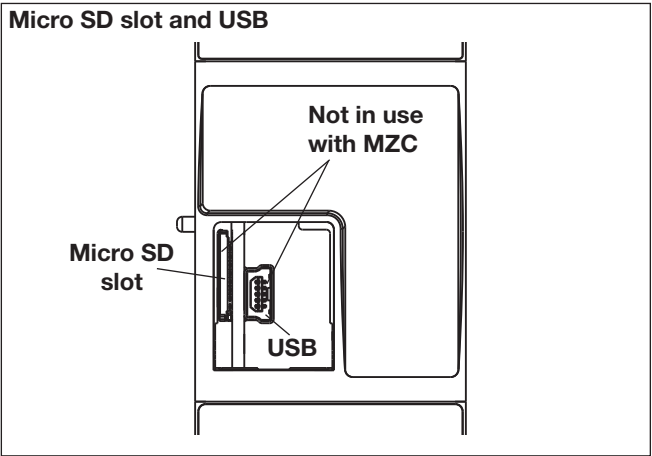
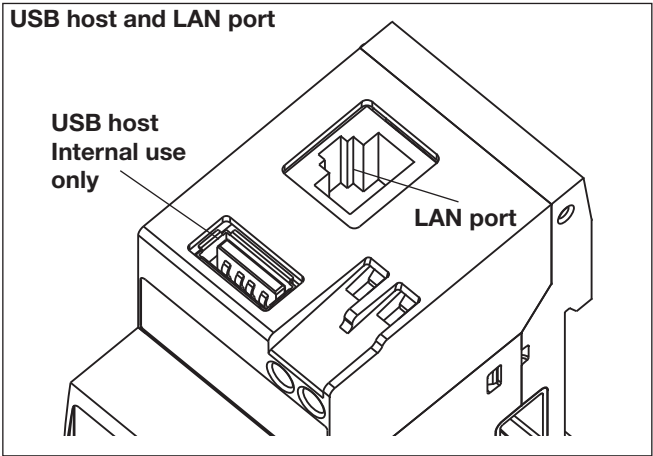
## General Specifications

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

## Connections

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

**Connections**

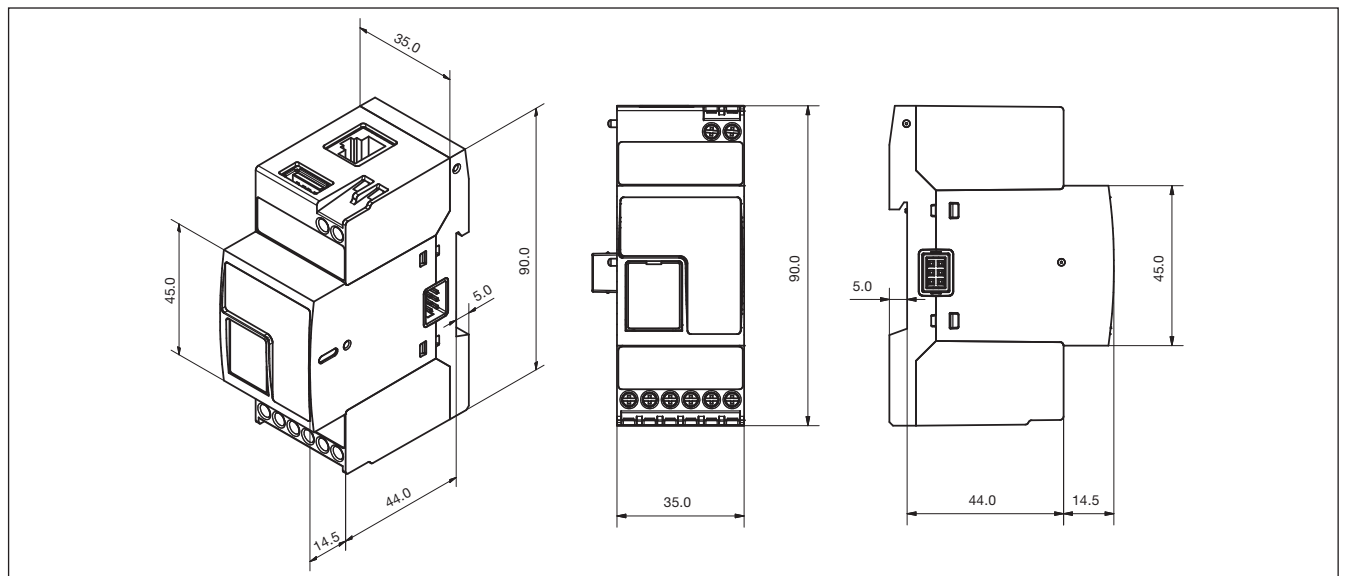


**Mode of Operation**

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 in the datasheet GPMZC-SET or the MZC installation manual.

## Dimensions



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