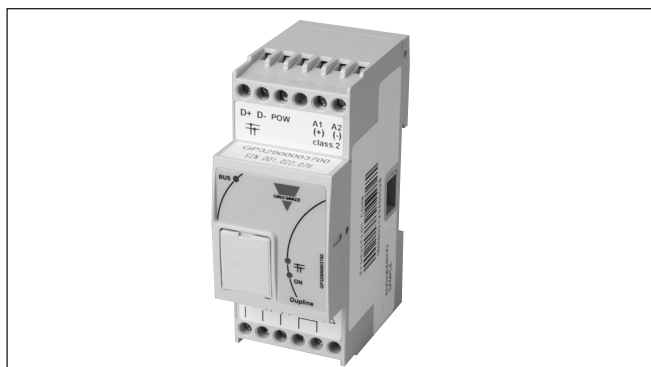


Dupline® Carpark Channel Generator for Carpark Type GP32900003700

CARLO GAVAZZI



- Supplies the Dupline® 3-wire bus (L₁ or L₂) with 24 VDC power and communication
- Operates in conjunction with The Master Zone Counter GP32950030700
- Max load on the third wire (pow out) is 3Amp
- Connect up to 120 sensors via Dupline® L₁ 3-wire bus
- Sends out sync. signal for the Carpark sensors on the L₁ bus
- Powered from 24 VDC

Product Description

The GP32900003700 is a Dupline® channel generator with 24VDC power out to supply ultrasonic sensors in the Dupline® Carpark system. The channel generator

is part of the GPMZC-SET, it has no independent functions and works only together with the counter module GP32950030700.

Ordering Key

GP32900003700

Type Selection

Housing

2 DIN

Mounting

DIN-rail

Supply: 24 VDC ± 20%

GP32900003700

Supply Specifications

Power supply	Overvoltage cat. II (IEC 60664-1, par. 4.3.3.2)	Voltage	8.2 V
Rated operational voltage	24 VDC ± 20%	Maximum Dupline® voltage	10 V
Rated impulse voltage	500V (1,2/50µs) (IEC 60664-1, tab. F.1)	Minimum Dupline® voltage	4.5 V
Rated operational power	6.5 W	Maximum Dupline® current	130 mA
Reverse polarity protection	Yes	Maximum current on pow	< 2.8 A @ 40°C < 2.6 A @ 50°C
Connection	A1 (+) and A2 (-)	Terminal	D+, D- and pow out
Power on delay	Typ. 20 s	Note: The Dupline® bus is located on the upper connector and also on the local bus connector on the right side of the module.	
Power off delay	1 s		

General Specifications

Installation category	Cat. II	Environment	
Dielectric strength		Degree of protection	IP 50
Power supply to Dupline® and Dupline® to Output	500 V AC for 1 min. 500 V impulse 1.2/50µs (IEC60664-1, TAB. A.1)	Front	IP 20
Fail-safe condition	If the GP32900003700 loses the communication with the GP32950030700, the Dupline® output will be switched off. In this situation all the modules connected to the bus will go into the fail-safe output status.	Screw terminal	2 (IEC 60664-1, par. 4.6.2)
		Pollution degree	-20° to +50°C (-4° to 122°F)
		Operating temperature	-50° to +85°C (-58° to 185°F)
		Storage temperature	20 to 80% RH
		Humidity (non-condensing)	
		LED indication	
		BUS	1 yellow LED
		Power	1 green LED
		Dupline®	1 yellow LED
		Connection	

General Specifications (cont.)

Terminal	12 screw-type	CE Marking	Yes
Cable cross-section area	Max. 1.5 mm ²	EMC	
Tightening torque	0.4 Nm / 0.8 Nm	Immunity	EN 61000-6-2
Housing		- Electrostatic discharge	EN 61000-4-2
Dimensions (WxHxD)	35 x 90 x 63.5 mm (2-DIN module)	- Radiated radiofrequency	EN 61000-4-3
Material	Noryl	- Burst immunity	EN 61000-4-4
Weight	150 g	- Surge	EN 61000-4-5
Approvals	cULus, according to UL60950	- Conducted radio frequency	EN 61000-4-6
	UL notes:	- Power frequency magnetic fields	EN 61000-4-8
	Max ambient temperature:	- Voltage dips, variations, interruptions	EN 61000-4-11
	40°C	Emission	EN 61000-6-3
	Equipment must be supplied by a separately certified NEC class 2 (LPS) power unit	- 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)

HS Bus Specifications

Bus type	RS485 high speed bus
Protocol	Internal proprietary protocol
Connection	By local bus (left and right connectors) or terminals GND, A(-), B(+). T1, T2: termination inputs. They have to be short-circuited on the last module of the network. See wiring diagrams.

LEDs Indication

Green LED: ON.

ON: Supply ON
OFF: Supply OFF

Yellow LED

Dupline® bus

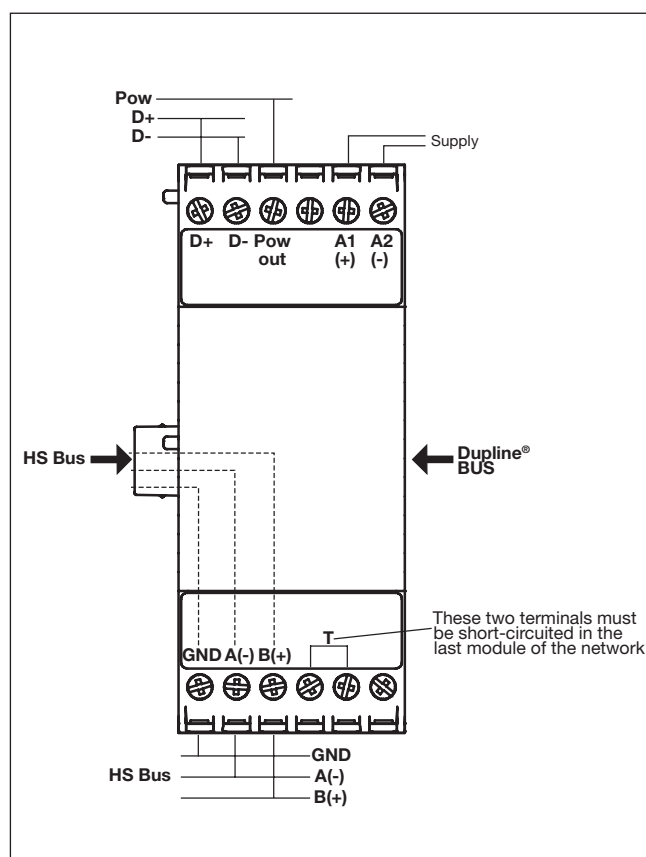
ON: the Dupline® bus is working properly
Flashing: there is a fault on the Dupline® bus
OFF: the Dupline® bus is OFF or not connected.

Yellow LEDs

Bus

OFF: no communication is present on the HS bus
ON: communication error on HS bus
Flashing: communication OK on HS bus

Wiring Diagrams

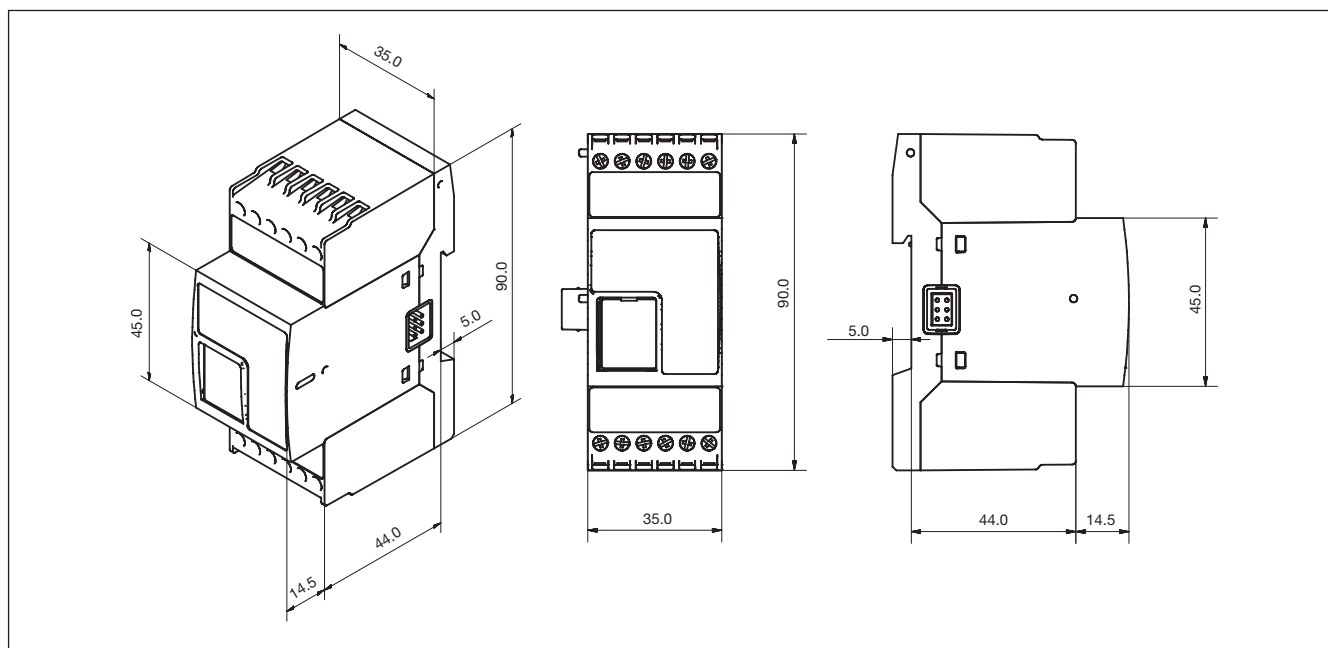


Mode of Operation

The GP32900003700 is part of the GPMZC-SET and it has no function without the counter module GP32950030700.

Information regarding installation, programming and handling the GP32900003700 can be found in the datasheet GPMZC-SET or the MZC installation manual.

Dimensions



Mouser Electronics

Authorized Distributor

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