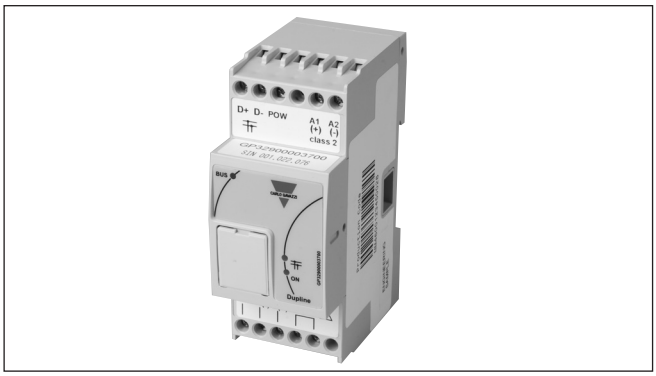
Dupline® Carpark
Channel Generator for Carpark
Type GP32900003700



- **Supplies the Dupline® 3-wire bus (L_1 or L_2) 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® L_1 3-wire bus**
- **Sends out sync. signal for the Carpark sensors on the L_1 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	Mounting	Supply: 24 VDC ± 20%
2 DIN	DIN-rail	**GP32900003700**

Supply Specifications

Power supply Rated operational voltage	Overvoltage cat. II (IEC 60664-1, par. 4.3.3.2) 24 VDC ± 20%
Rated impulse voltage	500V (1,2/50µs) (IEC 60664-1, tab. F.1)
Rated operational power	6.5 W
Reverse polarity protection	Yes
Connection	A1 (+) and A2 (-)
Power on delay	Typ. 20 s
Power off delay	1 s

Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	4.5 V
Maximum Dupline® current	130 mA
Maximum current on pow	< 2.8 A @ 40°C < 2.6 A @ 50°C
Terminal **Note:** The Dupline® bus is located on the upper connector and also on the local bus connector on the right side of the module.	D+, D- and pow out

General Specifications

Installation category	Cat. II
Dielectric strength 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)
Fail-safe condition	If the GP32900003700 looses 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.

Environment	
Degree of protection	
Front	IP 50
Screw terminal	IP 20
Pollution degree	2 (IEC 60664-1, par. 4.6.2)
Operating temperature	-20° to +50°C (-4° to 122°F)
Storage temperature	-50° to +85°C (-58° to 185°F)
Humidity (non-condensing)	20 to 80% RH
LED indication	
BUS	1 yellow LED
Power	1 green LED
Dupline®	1 yellow LED
Connection	

General Specifications (cont.)

Terminal	12 screw-type
Cable cross-section area	Max. 1.5 mm^2
Tightening torque	0.4 Nm / 0.8 Nm
Housing	
Dimensions (WxHxD)	35 x 90 x 63.5 mm (2-DIN module)
Material	Noryl
Weight	150 g
Approvals	cULus, according to UL60950 **UL notes:** Max ambient temperature: 40°C Equipment must be supplied by a separately certified NEC class 2 (LPS) power unit

CE Marking	Yes
EMC	
Immunity	EN 61000-6-2
- Electrostatic discharge	EN 61000-4-2
- Radiated radiofrequency	EN 61000-4-3
- Burst immunity	EN 61000-4-4
- Surge	EN 61000-4-5
- Conducted radio frequency	EN 61000-4-6
- Power frequency magnetic fields	EN 61000-4-8
- Voltage dips, variations, interruptions	EN 61000-4-11
Emission	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)

HS Bus Specifications

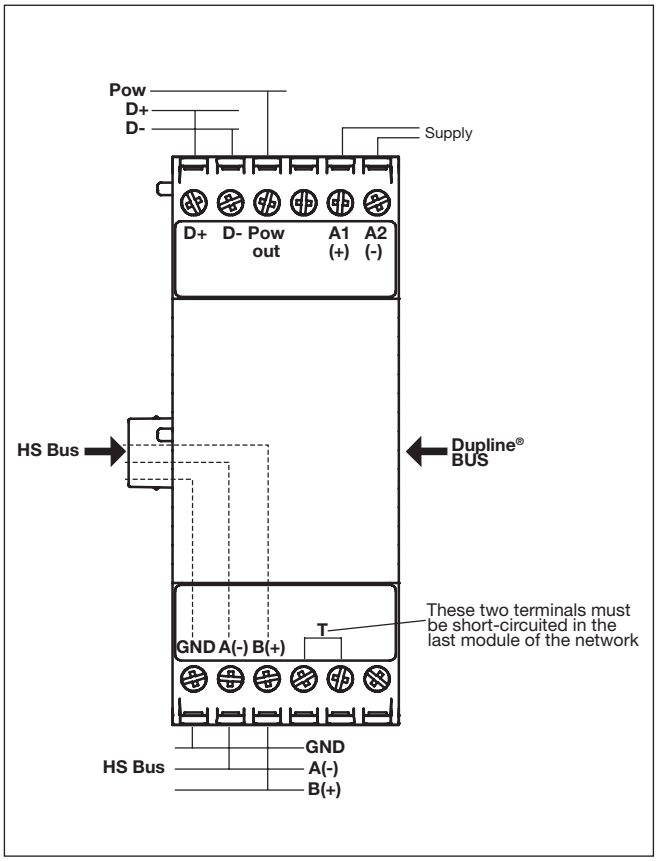
Bus type	RS485 high speed bus
Protocol	Internal proprietary protocol
Connection	By local bus (left and right connectors) or terminals GND, A(-), B(+). T1, T2: termination inputs. They have to be short-circuited on the last module of the network. See wiring diagrams.

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