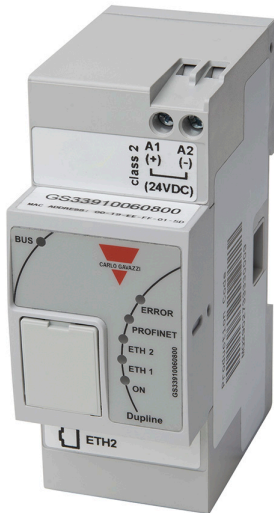


# GS33910060800



## Dupline® Profinet Gateway



### Benefits

- Profinet gateway with the function as a slave
- Up to 7 master generators can be connected via the HS RS485 bus (side connector)
- All Dupline® signals from the master generators are available on Profinet
- Mini webserver for diagnostics of Profinet and Dupline® networks
- Integrated 2-port switch
- 2-DIN UWP housing
- 24-VDC power supply

### Description

The GS33910060800 is a Profinet gateway with a built-in 2-port switch.

The module has no settings and works only in association with the master generator GS3390 0000 800.

By installing the GSD file in the PLC, the installer can design the functionality of e.g. digital in/out, analink, mux BCD and Dupline® safe signals.

After installation and connection it is possible, by using the mini webserver, to perform tests and diagnostics on both Profinet and the Dupline® networks (up to 7 Dupline® networks)

### Applications

Any application with the use of digital in/out, analink, MUX BCD, Dupline® Safe and Profinet

### Main functions

- Gateway between Dupline® and Profinet

## Features

### Power Supply

<b>Power supply</b>	24 VDC +/- 20%
<b>Overvoltage category</b>	Overvoltage category II (IEC 60664-1, par. 4.3.3.2)
<b>Rated impulse withstand voltage</b>	500V (1,2/50µs) (IEC 60664-1, tab. F.1)
<b>Rated operational power</b>	2.8 W
<b>Reverse-polarity protection</b>	Yes
<b>Connection</b>	A1 (+) and A2 (-)
<b>Power-ON delay</b>	Typ. 4 s
<b>Power-OFF delay</b>	≤ 1 s
<b>Power supply to Ethernet bus</b>	500 V impulse (1.2/50us) 500 V AC for 1 min

### Communication Profinet

#### Conformance Class B

- RT\_Class 1
- UDP/IP-Comm
- LLDP-Frames
- Alarms
- SNMP-support
- LLDP-MIB

#### Performance Characteristics

- 100 Mbps, full duplex with auto negotiation enabled as default
- Real Time (RT) communication, 250 µs cycle time

#### Data

- Up to 128 subslots in total
- 1440 bytes of IO data in each direction, including status bytes

### Environmental

<b>Degree of protection</b>	Front	IP50
	Screw terminal	IP20
<b>Pollution degree</b>	2 (IEC 60664-1, par. 4.6.2)	
<b>Operating temperature</b>	-20° ... +50°C (-4° ... +122°F)	
<b>Storage temperature</b>	-50° ... +85°C (-58° ... +185°F)	
<b>Humidity (not condensing)</b>	20 ... 80% relative humidity	


**EMC**

<b>Immunity</b>	EN61000-6-2
<b>Emission</b>	EN61000-6-3


**Indication**
**LED description**

Name	Colour	Behaviour
<b>HS-BUS</b>	Yellow	ON: Bus OK, OFF: Bus not OK
<b>Error</b>	Red	ON: Error detected, OFF: No error
<b>Profinet Communication</b>	Red	ON: Bus OK, OFF: Bus not OK, Flashing: when the PLC requests it
<b>ETH1:RJ45 Link1</b>	Green	ON: Cable connected, OFF: Cable disconnected
<b>EHT1: RJ45 Activity1</b>	Yellow	Flashing: communication
<b>ETH2:RJ45 Link2</b>	Green	ON: Cable connected, OFF: Cable disconnected
<b>EHT2: RJ45 Activity2</b>	Yellow	Flashing: communication
<b>Power supply</b>	Green	ON: Supply ON, OFF: Supply OFF

**LED Profinet**

LED status	Description	Comments (*)
<b>OFF</b>	Offline	No power, No connection with IO controller
<b>ON</b>	Online (RUN)	Connection with IO Controller established, IO Controller in RUN state
<b>1 flash</b>	Online (STOP)	Connection with IO Controller established, IO Controller in STOP state or IO data bad, IRT synchronization not finished
<b>Blinking</b>	Blink	Used by engineering tools to identify the node on the network

(\*)Test sequences are performed on the network and module status LEDs during startup

**Error LED indication**

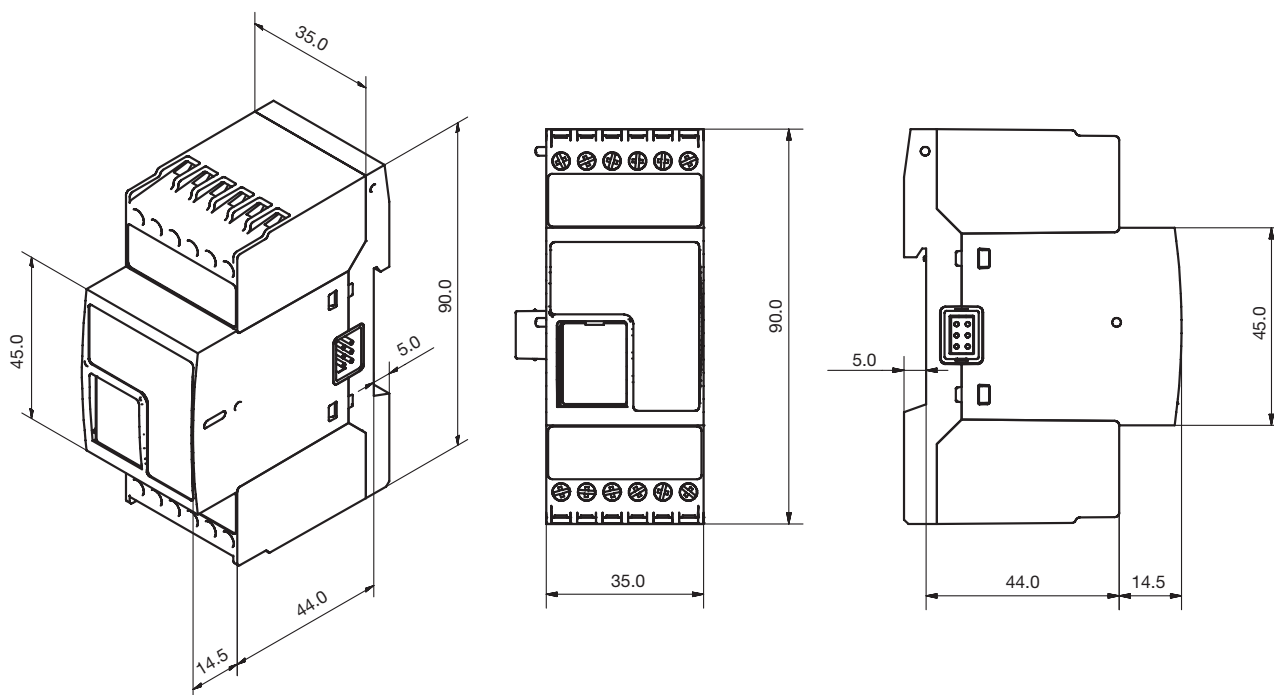
LED status	Description	Comments (*)
<b>ON</b>	Fatal event	Major internal error
<b>1 flash</b>	Station name error	Station name not set
<b>2 flashes</b>	IP address error	IP address not set
<b>3 flashes</b>	Configuration error	Expected Identification differs from Real Identification

(\*)Test sequences are performed on the Network and module-status LEDs during startup

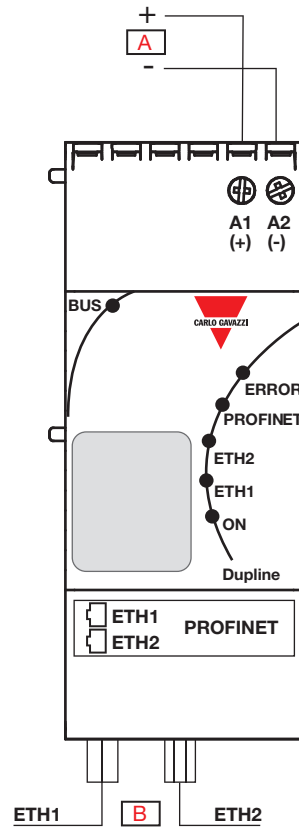
## Mechanics

### Housing

Housing material	Noryl
Colour	Light grey
Dimensions (HxWxD)	90 x 35 x 58.5 mm
Weight	110 g



**Wiring**

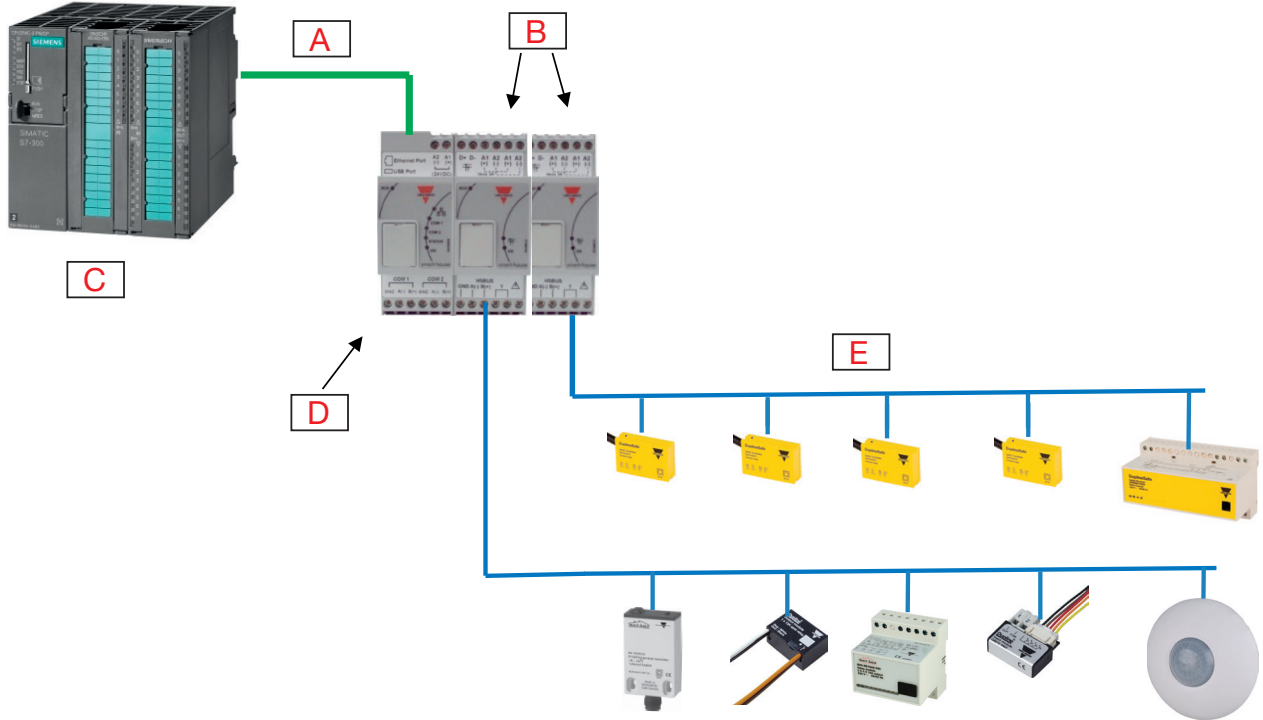


<b>A</b>	24-VDC Supply	<b>B</b>	Ethernet switch
----------	---------------	----------	-----------------

**Connection**

<b>Terminal</b>	2-screw type
<b>Cable cross-section area</b>	max. 1.5 mm <sup>2</sup>
<b>Tightening torque</b>	0.4 Nm / 0.8 Nm

Example of an installation with two MCG networks



<b>A</b>	Profinet	<b>D</b>	Profinet gateway (Ethernet module)
<b>B</b>	MCG1+2 (up to 7 connected to one Profinet gateway)	<b>E</b>	Dupline® & Dupline®Safe
<b>C</b>	Siemens S7 PLC		



## Compatibility and conformity

### ▶ Approvals

CE-marking	CE	
Approvals	cULus	UL60950

UL notes:

Max ambient temperature: 40°C

Equipment must be supplied by a separately certified NEC class 2 (LPS) power unit

## Mode of operation

### Mode of operation

The GS3391 0060 800 is a Profinet gateway with the function as a slave.

The module has a 2-port Ethernet switch RJ45 for connection to Profinet.

The module is to be mounted in association with the master generator GS3390 0000 800, to which up to 7 master generators can be connected.

Each master generator can operate with 128 Dupline® addresses.

All Dupline® signals from the master generator are available on Profinet.

By using the GSD file in the PLC configuration tool, the installer can design the functionality of e.g digital in/out, analink, mux BCD and Dupline® safe signals.\*

After installation and connection it is possible, by using the mini webserver, to perform tests and run diagnostics on both profinet and the Dupline® networks (up to 7 Dupline® networks).

The Profinet gateway is equipped with LEDs to show communication status.

\* The GSD file can be downloaded from: [Productselection.net](http://Productselection.net)





## References

 Product selection key

 GS33910060800



COPYRIGHT ©2016  
Content subject to change. Download the PDF: [www.productselection.net](http://www.productselection.net)