

Smart Dupline® Dupline Generator Type SH2DUG24



Product Description

The master channel generator SH2DUG24 provides the channel generator output drive for a "traditional" Dupline® network in a smart-Dupline® system, which is controlled by the UWP 3.0.

Together with a UWP 3.0, it substitutes a BH8-CTRLX-230, a BH8-CTRLZ-230 or a G38x0xx master generator.

Each UWP 3.0 can be connected up to 7 master chan-

nel generators (the sum of SH2MCG24, SH2DUG24 and SH2WBU230 is 7) in order to have 7 Dupline® and smart Dupline® networks. All the devices are connected via an internal bus if they are in the same cabinet, or via terminals if they are mounted on different cabinets.

Each SH2DUG24 must have an address that has to be programmed using the UWP 3.0 tool.

- Dupline® master channel generator
- 2-DIN housing
- Up to 7 SH2DUG24 can be connected on the same network, taking into consideration the sum of SH2DUG24, SH2MCG24 and SH2WBU230
- Connection to UWP 3.0 via internal bus or terminals via the high speed bus.

Ordering Key

SH 2 DUG 24

smart Dupline _____
2-DIN housing _____
Dupline generator _____
Power supply _____

Type Selection

Housing

2 DIN

Mounting

DIN-rail

Supply: 15 to 30 VDC

SH2DUG24

Supply Specifications

Power supply	Overvoltage cat. II (IEC 60664-1, par. 4.3.3.2) 15 to 24 VDC ± 20%
Rated operational voltage	
Operational voltage range	10 to 30 VDC (ripple included)
Rated operational power	6.5 W
Protection for reverse polarity	Yes
Connection	2xA1 (+) and 2xA2 (-) (2 pairs of terminals internally connected)
Power on delay	Typ. 4 s
Power off delay	1 s

Dupline® Specifications

Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	4.5 V
Maximum Dupline® current	450 mA @ 25° 350 mA @ 40°
Terminal	D+ and D-
Note:	The Dupline® bus is located on the upper connector and also on the local bus connector on the right side of the module.

General Specifications

Installation category	Cat. II	Tightening torque	0.4 Nm / 0.8 Nm
Dielectric strength		Housing	
Power supply to Dupline®	500 V AC for 1 min. (IEC60664-1, TAB. A.1)	Dimensions	2-DIN module
		Material	Noryl
Fail-safe condition	If the SH2DUG24 loses the communication with the UWP 3.0, the Dupline® output will be switched off.	Weight	150 g
Environment		Approvals	cULus, according to UL60950
Degree of protection		CE Marking	Yes
Front	IP 50	EMC	
Screw terminal	IP 20	Immunity	EN 61000-6-2
Pollution degree	2 (IEC 60664-1, par. 4.6.2)	- Electrostatic discharge	EN 61000-4-2
Operating temperature	-20° to +50°C (-4° to 122°F)	- Radiated radiofrequency	EN 61000-4-3
Storage temperature	-50° to +85°C (-58° to 185°F)	- Burst immunity	EN 61000-4-4
Humidity (non-condensing)	20 to 80% RH	- Surge	EN 61000-4-5
LED's indication		- Conducted radio frequency	EN 61000-4-6
Bus LED	1 yellow	- Power frequency magnetic fields	
Power LED	1 green	- Voltage dips, variations, interruptions	EN 61000-4-8
Dupline® LED	1 yellow	Emission	
Connection		- Conducted and radiated emissions	EN 61000-4-11
Terminal	12 screw-type	- Conducted emissions	EN 61000-6-3
Cable cross-section area	Max. 1.5 mm ²	1)	CISPR 22 (EN55022), cl. B
		- Radiated emissions	CISPR 16-2-1 (EN55016-2-3)
		3)	CISPR 16-2-3 (EN55016-2-3)

HS Bus Specifications

Bus type	RS485 high speed bus
Protocol	Internal proprietary protocol
Number of slave	Max 7
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.
Addressing method	The address of the SH2DUG24 is defined in the UWP 3.0 tool, and then assigned to it by the UWP 3.0 according to the SIN.

LEDs Indication

Green LED: ON.

ON: Supply ON
OFF: Supply OFF

Bus:

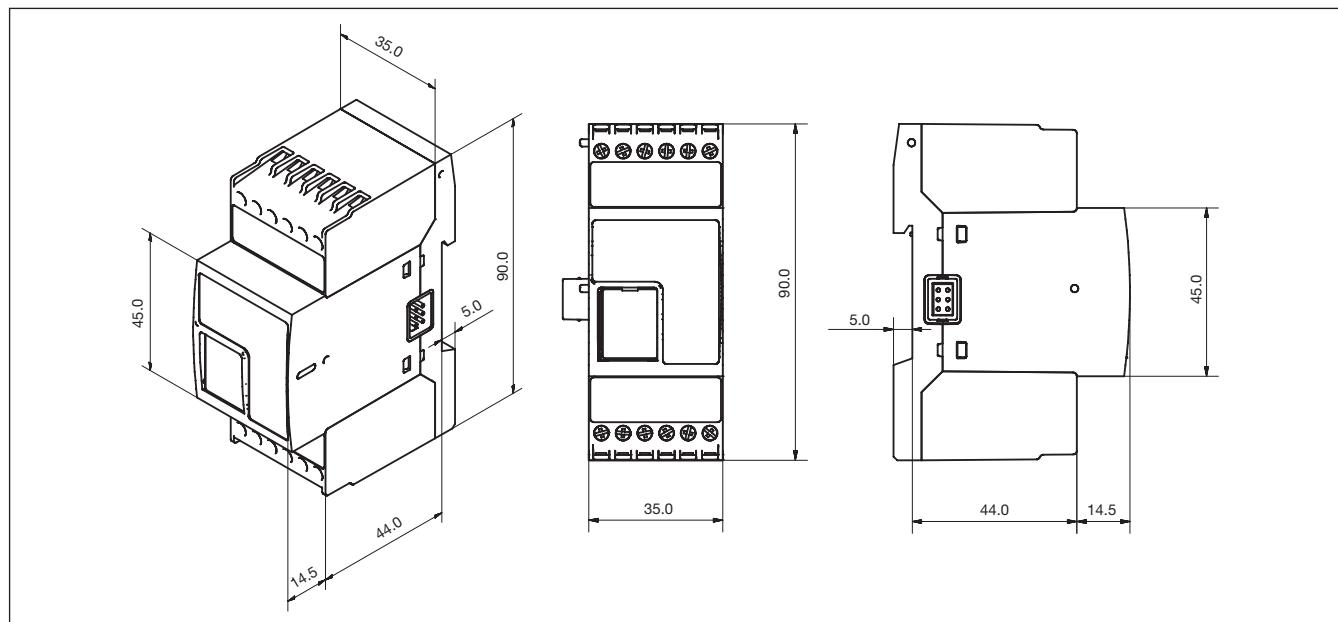
OFF: no communication is present on the HS bus (no communication with Sx/UWP controller)
Steady ON: communication OK on HS bus
Flashing ON: communication error on HS bus

Yellow LEDs

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.

Dimensions



Wiring Diagrams

