Smart Dupline® Dupline Generator Type SH2DUG24





- Dupline® master channel generator
- 2-DIN housing

Power supply

- Up to 7 SH2DUG24 can be connected on the same network, taking into consideration the sum of SH2DUG24, SH2MCG24 and SH2WBU230
- Connection to SH2WEB24 via internal bus or terminals via the high speed bus.

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 Sx2WEB24.

Together with a Sx2WEB24, it substitutes a BH8-CTRLX-230, a BH8-CTRLZ-230 or a G38x0xx master generator. Each Sx2WEB24 can be connected up to 7 master channel

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 Sx tool.

Ordering Key	SH 2 DUG 24
smart-house	
Dupline generator ——	

Type Selection

Housing	Mounting	Supply: 15 to 30 VDC
2 DIN	DIN-rail	SH2DUG24

Supply Specifications

Power supply	Overvoltage cat. II (IEC 60664-1, par. 4.3.3.2)
Rated operational voltage	15 to 24 VDC ± 20%
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	Housing
Dielectric strength Power supply to Dupline®	500 V AC for 1 min.	Dimensions Material
,	(IEC60664-1, TAB. A.1)	Weight
Fail-safe condition	If the SH2DUG24 loses the	Approvals
	communication with the	CE Marking
	Sx2WEB24, the Dupline® output will be switched off.	EMC
Environment Degree of protection Front Screw terminal Pollution degree Operating temperature Storage temperature Humidity (non-condensing) LED's indication Bus LED Power LED Dupline® LED	IP 50 IP 20 2 (IEC 60664-1, par. 4.6.2) -20° to +50°C (-4° to 122°F) -50° to +85°C (-58° to 185°F) 20 to 80% RH 1 yellow 1 green 1 yellow	Immunity - Electrostatic disc - Radiated radiofre - Burst immunity - Surge - Conducted radio - Power frequency fields - Voltage dips, vari interruptions Emission - Conducted and radio
Connection Terminal Cable cross-section area Tightening torque	12 screw-type Max. 1.5 mm ² 0.4 Nm / 0.8 Nm	 Conducted emiss Radiated emission

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Housing	
Dimensions	2-DIN module
Material	Noryl
Weight	150 g
Approvals	cULus, according to UL60950
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 	0.000
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

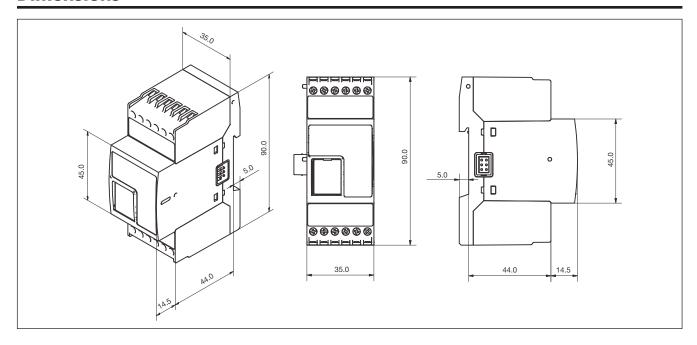
Bus type	RS485 high speed bus
Protocol	Internal proprietary protocol
Number of slave	Max 7
Connection	By local bus (left and right connectors) or terminals GND, A(-), B(+). T1, T2: termination inputs. They have to be short-circuited on the last module of the network. See wiring diagrams.
Addressing method	The address of the SH2DUG24 is defined in the Sx tool, and then assigned to it by the Sx2WEB24 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 ON: communication error on
Yellow LEDs	HS bus
Dupline® bus	Flashing: communication Ok
ON: the Dupline® bus is	on HS bus
working properly	
Flashing: there is a fault on	
the Dupline® bus	
OFF: the Dupline® bus is	
OFF or not connected.	



Dimensions



Wiring Diagrams

