## Smart Dupline® **Dupline Generator** Type SH2DUG24

# Product Description

The master channel generator SH2DUG24 provides the channel generator output drive for a "traditional" Dupline<sup>®</sup> network in a smart-Dupline<sup>®</sup> system, which is the controlled by 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

## Type Selection

Housing 2 DIN

Mounting DIN-rail

**Supply Specifications** 

Power supply Rated operational voltage	Overvoltage cat. II (IEC 60664-1, par. 4.3.3.2) 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

## Dı

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

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- Dupline<sup>®</sup> 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 SH2WEB24 via internal bus or terminals via the high speed bus.

SH 2 DUG 24

### Ordering Key

smart-house 2-DIN housing Dupline generator Power supply.

Supply: 15 to 30 VDC

SH2DUG24

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.

generators

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

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SH2MCG24, SH2DUG24 and

SH2WBU230 is 7) in order to

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upline <sup>®</sup> Specifications			
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## **General Specifications**

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Installation category	Cat. II	Housing	
Dielectric strength		Dimensions	2-DIN module
Power supply to Dupline <sup>®</sup>	500 V AC for 1 min.	Material	Noryl
	(IEC60664-1, TAB. A.1)	Weight	150 g
Fail-safe condition	If the SH2DUG24 loses the	Approvals	cULus, according to UL60950
	communication with the	CE Marking	Yes
	Sx2WEB24, the Dupline <sup>®</sup> output will be switched off.	EMC	
F	output will be switched off.	Immunity	EN 61000-6-2
Environment		<ul> <li>Electrostatic discharge</li> </ul>	EN 61000-4-2
Degree of protection		<ul> <li>Radiated radiofrequency</li> </ul>	EN 61000-4-3
Front	IP 50	- Burst immunity	EN 61000-4-4
Screw terminal	IP 20	- Surge	EN 61000-4-5
Pollution degree	2 (IEC 60664-1, par. 4.6.2)	- Conducted radio frequency	EN 61000-4-6
Operating temperature	-20° to +50°C (-4° to 122°F)	- Power frequency magnetic	
Storage temperature	-50° to +85°C (-58° to 185°F)	fields	EN 61000-4-8
Humidity (non-condensing)	20 to 80% RH	<ul> <li>Voltage dips, variations,</li> </ul>	
LED's indication		interruptions	EN 61000-4-11
Bus LED	1 yellow	Emission	EN 61000-6-3
Power LED	1 green	<ul> <li>Conducted and radiated</li> </ul>	
Dupline <sup>®</sup> LED	1 yellow	emissions	CISPR 22 (EN55022), cl. B
Connection	-	- Conducted emissions	CISPR 16-2-1 (EN55016-2-1)
Terminal	12 screw-type	- Radiated emissions	CISPR 16-2-3 (EN55016-2-3)
Cable cross-section area	Max. 1.5 $mm^2$		
Tightening torque	0.4 Nm / 0.8 Nm		

## **HS Bus Specifications**

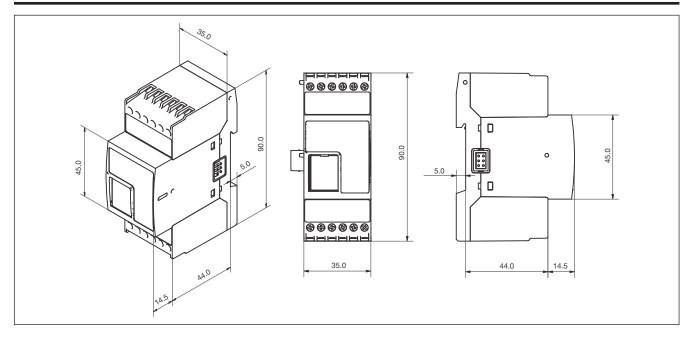
Bus type	RS485 high speed bus	
Protocol	Internal proprietary protocol	
Number of slave	Max 7	
Connection	By local bus (left and right connectors) or terminals GND, A(-), B(+). T1, T2: termination inputs. They have to be short-cir- cuited on the last module of the network. See wiring diagrams.	
Addressing 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**

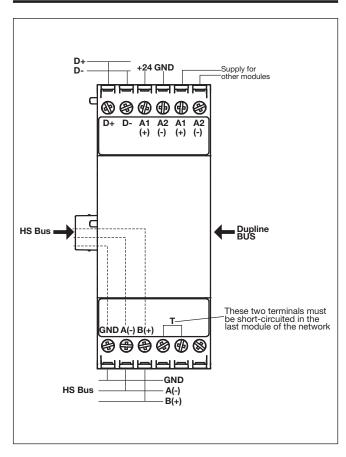
ol	Green LED: ON. ON: Supply ON OFF: Supply OFF	Bus OFF: no communication is present on the HS bus ON: communication error on
ght als	<b>Yellow LEDs</b> <b>Dupline<sup>®</sup> bus</b> ON: the Dupline <sup>®</sup> bus is	HS bus Flashing: communication OK
ts.	working properly	
ir-	Flashing: there is a fault on	
of	the Dupline <sup>®</sup> bus OFF: the Dupline <sup>®</sup> bus is OFF or not connected.	
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### Dimensions



## Wiring Diagrams



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