

S 255 SERIES

BATTERY MASTER SWITCH



S 255 SERIES

ELECTRICAL CONTROL

300 A CONTINUOUS RATING ●

ATEX APPROVAL  II 2 G & ADR APPLICATION Ex ib IIC T6 Gb ●



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BATTERY MASTER SWITCH

TECHNICAL DATA

MAIN CHARACTERISTICS

Rated voltage	12 / 24 V
Temperature range	- 40 to +85 °C
Protection degree (ISO20653)	IP65
Housing material	PBT reinforced
Weight	3200 g
ADR/ATEX Approval	ADR regulation Ex ib IIC T6 Gb - ATEX Ex II 2 G
Compliant with directive	REACH (2006/121/EC) - ELV (2000/53/EC)

POWER CIRCUIT

Continuous rating	2 x 300 A
Overload	2 x 1500 A (5 s)
Max DC voltage	30 V
Terminals size	4 x M10
Contact resistance	<1 mΩ
Terminals length	9 mm
Tightening torque	14N.m ± 20%
Terminals material	silver plated copper

CONTROL CIRCUIT

Voltage range	10.5 - 16 V / 18 - 30 V
Control signal	ON / OFF (1/0)
Switching current	10 A - 12 V or 7.3 A - 24 V (200 ms)
Idle current in OFF position	≈ 7 mA
Connection	C1 connector - PIN 3 & 4

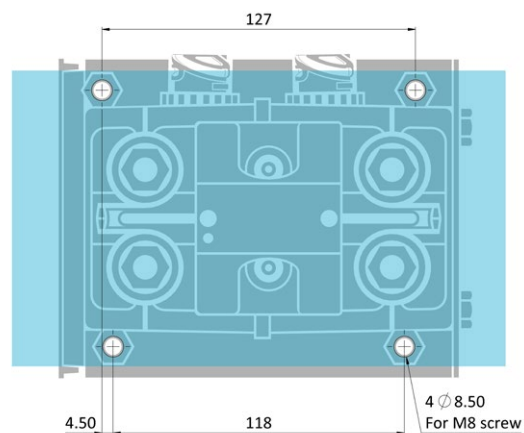
AUXILIARY CIRCUIT

Type	Relay control output
Continuous rating	10 mA
Connection	C1 connector - PIN 5 & 6

OTHER FUNCTIONS

Low battery Voltage Monitoring	See instruction notice
Automatic disconnection function	

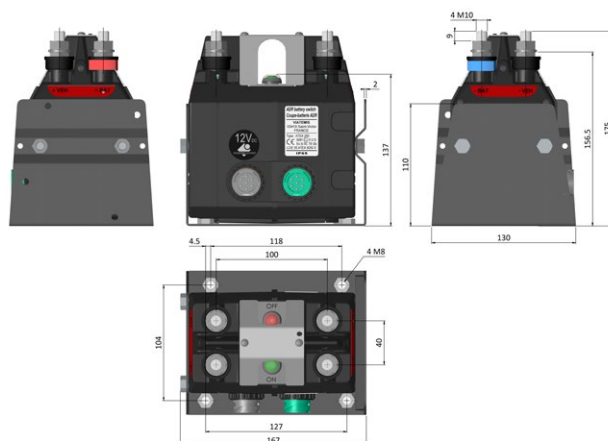
MOUNTING INTERFACE



Screwing torque M8 : 10N.m ± 10%

DIMENSIONS

202342 | 202344 | 202346



ACCESSORIES



202834
900 SERIES

Lockable support



202528
S701 SERIES

Control switch
4-Pin ISO 15170 / DIN 75585
electrical connection



202326
713 SERIES

Cabling kit
for control switch



201010 - 202499
S 900 SERIES

Red or black terminal
insulation cap
(4 black caps included)



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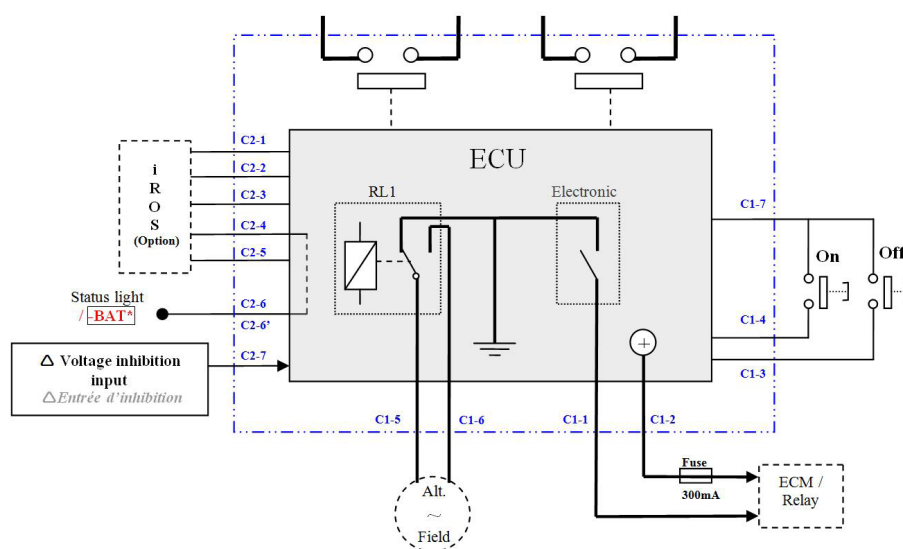
BATTERY MASTER SWITCH

PRODUCT SELECTION

P/N	HOUSING COLOR	VOLTAGE	POLARITY
202342	■	12 V	+/- CUT OFF
202344	■	24 V	+/- CUT OFF
202346	■	12 V	+/+ CUT OFF

On request: specific technical demand can be studied

ELECTRICAL DIAGRAM



**CONNECTOR C1 (grey or black):
CONTROL AND AUXILIARY CIRCUITS**

C1-1	Grounded (-BAT) controlled output * / 300mA Max. External fuse recommended
C1-2	«+» Battery supply output
C1-3	Remote Off pushbutton (momentary action)
C1-4	Remote On pushbutton (momentary action)
C1-5	Auxiliary relay #1 (Common) ** / rating: 10A External fuse recommended (short circuit protection)
C1-6	Auxiliary relay #1 (NO contact) ** / 10A Max.
C1-7	Remote switches supply (protected) ***

* This output is deactivated 10 seconds after the main circuits opening

** The relay RL1 is deactivated at least 30ms before the main circuits opening

*** opening
A remote control device (not supplied) to facilitate the disconnecting and reconnecting functions of the battery switch shall be installed in the driver's cab. Others remote push-buttons may be installed outside in parallel (e.g. chassis). The control switches shall be protected against inadvertent operations (e.g. cover...).

CONNECTOR C2 (green or blue):
"IROS" MODULE & BATTERY VOLTAGE MONITORING

C2-1	iROS “-” Battery supply (limited)
C2-2	iROS shutdown control * / Low level (-)
C2-3	iROS “+” Battery supply (limited)
C2-4	iROS warning light output / Low level (-)
C2-5	iROS test input / High level (+)
C2-6	Vehicle in cab status light (= Pin 4)
C2-6’ <i>see nota</i>	“-” Battery supply (see NOTA below) (dedicated to the specific version double + switch)
C2-7	Voltage monitoring (LVM) inhibition / High level (+)

* In case of emergency (via "iROS" module) all auxiliary and main circuits are operated immediately without any delay
If connector C2 is not used, it shall be protected by a blind plug (our P/N 102011)



Specificities of the “double + switch” version (+BAT / +BAT)

NOTA	<i>This version is used to switch off 2 circuits connected to the positive battery terminals</i>
	<i>C2-6' (pin 6 of connector C2) has to be connected to "– BAT" supply</i>