

COMPONENTS

Pneumatic Interlocking Valve
for rolling stock
Type **BSV**



The **BSV** type pneumatic interlocking valve is a safety device, installed in the pneumatic circuit providing air supply to the pantograph or any other pneumatic driven device.

During maintenance operations, the **BSV** is manually switched in the OFF position, interrupting the air supply and releasing the air pressure in the pneumatic circuit of the device it operates. In this

safety position, removal of the interlocking key(s) prevents inappropriate operation of the **BSV**, and guarantees the safety of the maintenance operations. As example, the lowered position of the pantograph is guaranteed through the **BSV**, providing the highest safety to the maintenance staff working on high voltage equipments.

Applications

Pneumatic interlocking for railway rolling stock.

Main features

- Safety interlocking device
- Manual operation through one or several interlocking key(s)
- Indoor mounting
- Reference standards IEC 61373, NF F16-101 /-102

Technical data

	Symbol	Unit	BSV
PNEUMATIC CIRCUIT			
Air pressure		[MPa]	0.4 to 1
LOW VOLTAGE AUXILIARY CIRCUIT			
Control circuit			
Nominal voltage	U_n	[Vdc]	24 to 110
Auxiliary contacts			
Type of contacts (refer to definition page 3)			Potential free
Rated voltage		[Vdc]	24 to 110
Conventional thermal current	I_{th}	[A]	10
Maximum breaking capacity at 110 Vdc and $\tau=5$ ms		[A]	6
Minimum let-through current at 24 Vdc ⁽¹⁾		[mA]	10 (silver contacts) 4 (gold contacts)

(1) For clean and dry environment

OPERATING CONDITIONS

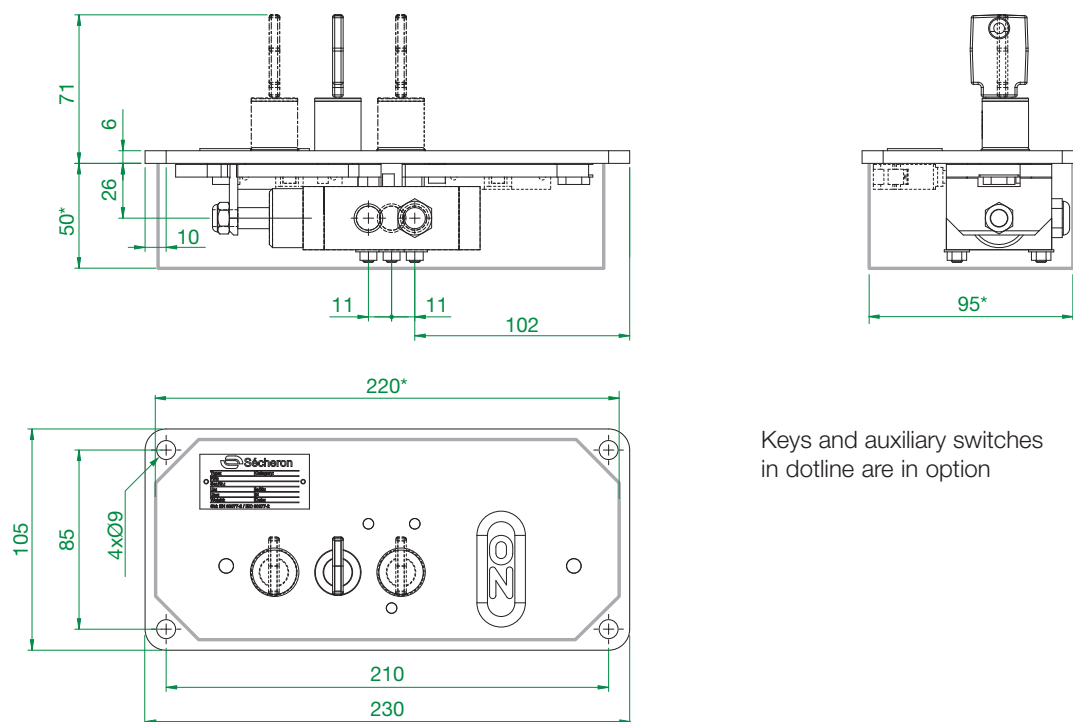
Installation			Indoors
Altitude		[m]	<1400
Working ambient temperature ⁽²⁾	T_{amb}	[°C]	-25 to +70
Humidity			Classe 5K2
Pollution degree			PD4
Minimum mechanical durability	N	Cycles	≥20'000

(2) For ambient temperature below -25°C please contact Sécheron

Main dimensions

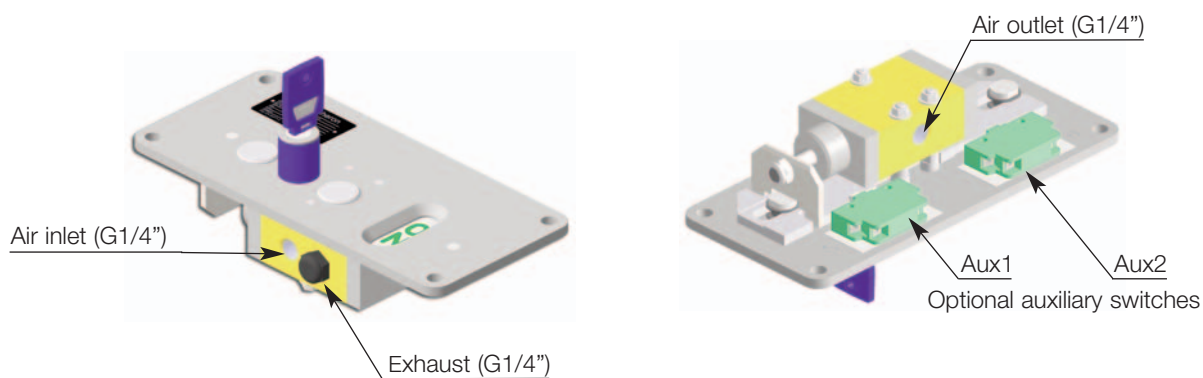
Weight: 1.5 ± 0.25 kg

The DIN-ISO 2768-1 coarse tolerances are applied to these dimensions. All dimensions are in mm. The maximum allowed flatness deviation of the support frame is 0.3 mm.

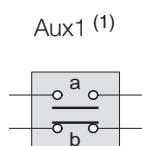


Keys and auxiliary switches in dotline are in option

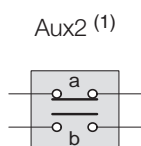
*: Space needed for installation.



Definition of the optional auxiliary switches



Potential free contact
Type: PF



Potential free contact
Type: PF

The contact "a" corresponds to a NO (Normally Open) contact
The contact "b" corresponds to a NC (Normally Close) contact.

(1) Refer to the above main dimensions drawings for the position of the auxiliary switches .

Designation code information

- Be sure to establish the designation code from the latest version of our brochure by downloading it from the website: www.secheron.com.
- Be careful to write down the 7 digits for the type designation code when placing your order.
- It could be, for technical reasons, that some variants and options indicated in the designation code cannot be combined.
- For other configurations not described in the brochure, please contact Secheron.

Designation code - Order form (subject to additional costs)

Line	Description	Designation	Standard	Options	Customer's choice
10	Product type		BSV2		BSV2
11	Key configuration ⁽²⁾	1A 1A + 1B 1A + 2B	A B	C	
12	Key and lock codification for each unit	No Yes	0	1	
13	Auxiliary contacts	None Aux1 - 1a + 1b - (switch PF) - silver type Aux1 - 1a + 1b - (switch PF) - gold type Aux1 and Aux2 - 2a + 2b - (switch PF) - silver type Aux1 and Aux2 - 2a + 2b - (switch PF) - gold type	0	1 2 3 4	

(2) A-blue, B-yellow; different key colors can be ordered

Example of customer's choice:	BSV2	B	1	3
Line:	10	11	12	13

The **bold characters** of the designation code define the device type.

Place and date:

Signature:



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