



# JB400

PROFIBUS-PA, FOUNDATION™ fieldbus

INTELLIGENT JUNCTION BOX

- Intelligent Junction Box for fieldbus installations in compliance with the IEC61158-2 standard (PROFIBUS-PA and FOUNDATION™ fieldbus)
- 4, 6 or 8 spurs
- Intelligent protection against short circuit in each spur, preventing the short circuit propagation. After removing the short circuit, the spur goes back to normal operation
- Quick and easy installation
- Can be mounted directly on walls or panels using fixation screws
- Maintenance during operation



# smar

JB400 offers spur protection against short circuits (between + and - terminals), limiting the short circuit current in each spur at 50 mA. During a short circuit situation there is no effect in the other spur or the main trunk. There is a LED to indicate short circuits and JB400 has an integrated bus terminator.

In normal operation, each short circuit protector consumes less than 1 mA. After removing the short circuit, the spur goes back to normal operation and the protection circuit is disabled, and the LED is dimmed.

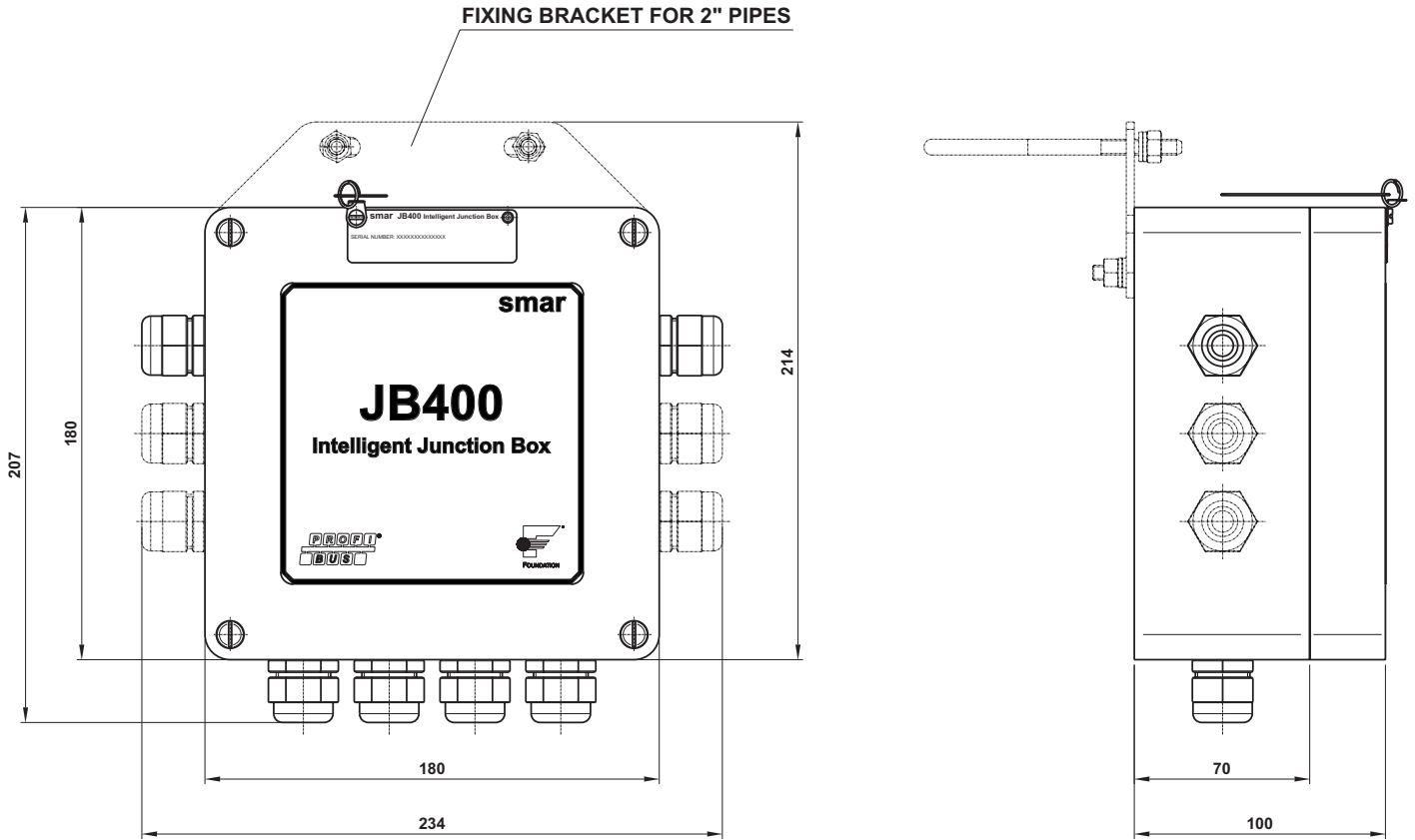


## Technical Specifications

CHARACTERISTICS	
Physical layer	In compliance with IEC 61158-2
Power supply	Bus-powered 9 to 32 Vdc
Communication protocols	PROFIBUS-PA and FOUNDATION™ fieldbus
Maximum trunk current	2.5 A
Quiescent current per spur in normal operation	< 1 mA
Maximum current per spur during a short circuit	50 mA
Maximum voltage drop per spur	0.3V@20 mA
Number of spurs	4, 6 or 8
Spur connections	Removable 3-pin terminal blocks, 2.5 mm <sup>2</sup>
Surge protector at input	Cut in 62 V, 1500 W
Cover closing	4 screws with O-ring
Housing Material	Aluminum
Mounting	Via screws (for panel) or support with pipe clamp
Protection degree	IP 66
Terminator	100 Ω resistor and 1μF capacitor selectable by switch
Status LED	On (red): spur in short circuit condition; Off: spur in normal operation

ENVIRONMENTAL CONDITIONS	
Operation Temperature	-20°C to 70°C
Storage	-40°C to 85°C
Humidity	0-95% non-condensing

DIMENSIONS AND WEIGHT	
Dimensions (mm)	180 x 180 x 100
Weight	1.6 kg



Ordering Code

MODEL	INTELLIGENT JUNCTION BOX
JB400	
<b>COD.</b>	<b>Number of Spurs</b>
4	4 Spurs
6	6 Spurs
8	8 Spurs
<b>COD.</b>	<b>Electrical Connections</b>
A	M20 X 1,5 (cable gland included)
<b>COD.</b>	<b>Mounting bracket</b>
0	Without bracket
C	Carbon steel bracket
I	Stainless steel bracket
<b>COD.</b>	<b>Technology</b>
F	FOUNDATION™ fieldbus
P	PROFIBUS PA

JB400 - - - \*

\* In case of no special options leave blank.

Special Options

<b>Painting</b>	P0	Gray Munsell
<b>Housing Material</b>	H0	Aluminum

**smar**  
**www.smar.com**

Specifications and information are subject to change without notice.  
Up-to-date address information is available on our website.

web: [www.smar.com/contactus.asp](http://www.smar.com/contactus.asp)

