

# SM87 JB junction boxes range

Ex d



## Overview

A metallic junction box for Zone 1 or Zone 2 use.

Available in stainless steel or marine grade alloy.

Various terminals and entries can be accommodated.

Stainless steel, one of the most durable materials available on the market, is both hard wearing and corrosion resistant, increasing the life of products in harsh environments and therefore reducing maintenance costs.

## Features

- Zone 1 and Zone 2 use
- Ex d IIC T5/T6
- ATEX approved Ex II 2GD
- IECEx certificated Gb, Db
- IP66 and 67
- Optional telephone or relay initiate
- Optional resistors or diodes



## Certifications

<b>ATEX Ex d</b>	Cert. no. Bas03ATEX0463. Certified to: EN60079-0, EN60079-1, EN60079-31. Ex II 2GD, Ex d IIC T4/5/6 Gb, Ex tb IIIC T135/100/85°C Db, IP66/67
<b>IECEX Ex d</b>	Cert. no. IECEx BAS 13.0048 Certified to: IEC60079-0, IEC60079-1, IEC60079-31. Ex d IIC T4/5/6 Gb, Ex tb IIIC T135/100/85°C Db, IP66/67

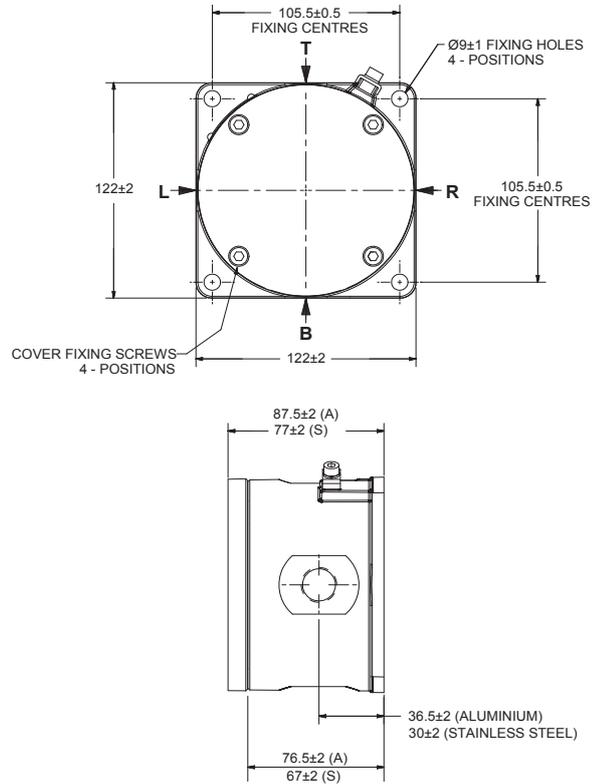
## Specifications

<b>Material</b>	Stainless steel grade 316 ANC4B, marine grade alloy LM25
<b>Finish</b>	Painted to customer specification
<b>Certified temp</b>	-55°C to +85°C (T4) -55°C to +70°C (T5) -55°C to +55°C (T6) T ratings are for units with terminals only
<b>Weight</b>	3.1kg
<b>Ingress protection</b>	IP66 and IP67
<b>Entries</b>	Max. one per face in M20 or M25 ISO
<b>Resistor or diode</b>	Contact sales office for information. Maximum of two components
<b>Relay initiate</b>	Initiate voltage: 24 or 48Vdc Max switching voltage: 250Vac Max switching current: 10A
<b>Telephone initiate</b>	Ringing voltage: 24-70Vac Max switching voltage: 240Vac Max switching current: 2A

Terminal Weidmuller	No. off	Max volts	Max amps	Max conductor size mm <sup>2</sup>
BK6	6	440V	25A	4
MK3/10	10	440V	25A	2.5
AKZ4	12	440V	25A	4
SAKD2.5N	12	440V	25A	2.5
SAK2.5	8	440V	25A	2.5
SAK4	6	440V	25A	4

Terminal PHOENIX	No. off	Max volts	Max amps	Max conductor size mm <sup>2</sup>
MBK	12	440V	25A	1.5
MBK5	12	440V	25A	4
MBK6	10	440V	25A	6

## General arrangement drawing (all dimensions in mm)



## Ordering requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box

Model	Certification	Entries	Terminals	Tag/duty	Options	Finish																																																																												
<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <b>SM87JBA</b> (alloy)  <b>SM87JBS</b> (stainless steel)                 </div>	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <table border="1"> <thead> <tr> <th>Certification</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>ATEX</td> <td>B</td> </tr> <tr> <td>IECEX</td> <td>J</td> </tr> </tbody> </table> </div>	Certification	Code	ATEX	B	IECEX	J	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <table border="1"> <thead> <tr> <th>Entries</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>M20</td> <td>1</td> </tr> <tr> <td>M25</td> <td>2</td> </tr> <tr> <td colspan="2">Please specify</td> </tr> <tr> <td>Top</td> <td>*T</td> </tr> <tr> <td>Bottom</td> <td>*B</td> </tr> <tr> <td>RHS</td> <td>*R</td> </tr> <tr> <td>LHS</td> <td>*L</td> </tr> </tbody> </table> <p>*Prefix position with entry size code e.g. 1T1B = M20 top and bottom entries</p> </div>	Entries	Code	M20	1	M25	2	Please specify		Top	*T	Bottom	*B	RHS	*R	LHS	*L	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <table border="1"> <thead> <tr> <th>Terminal</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>NN*</td> </tr> <tr> <td>BK6</td> <td>11</td> </tr> <tr> <td>MK3/10</td> <td>12</td> </tr> <tr> <td>AKZ 4</td> <td>13</td> </tr> <tr> <td>SKD2.5N</td> <td>14</td> </tr> <tr> <td>SAK2.5</td> <td>15</td> </tr> <tr> <td>SAK4</td> <td>16</td> </tr> <tr> <td>MBK</td> <td>21</td> </tr> <tr> <td>MBK5</td> <td>22</td> </tr> <tr> <td>MBK6</td> <td>23</td> </tr> </tbody> </table> <p>*Please select for telephone or relay initiate version</p> </div>	Terminal	Code	None	NN*	BK6	11	MK3/10	12	AKZ 4	13	SKD2.5N	14	SAK2.5	15	SAK4	16	MBK	21	MBK5	22	MBK6	23	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <table border="1"> <thead> <tr> <th>Labels</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N</td> </tr> <tr> <td>Yes</td> <td>Y*</td> </tr> </tbody> </table> <p>*Please specify in text</p> </div>	Labels	Code	None	N	Yes	Y*	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <table border="1"> <thead> <tr> <th>Option</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>None</td> <td>N</td> </tr> <tr> <td>Telephone initiate</td> <td>T</td> </tr> <tr> <td>Relay initiate</td> <td>R*</td> </tr> <tr> <td>Resistors</td> <td>St</td> </tr> <tr> <td>Diodes</td> <td>D†</td> </tr> </tbody> </table> <p>*Please specify voltage †Please specify values and wiring arrangement Max of two components</p> </div>	Option	Code	None	N	Telephone initiate	T	Relay initiate	R*	Resistors	St	Diodes	D†	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <table border="1"> <thead> <tr> <th>Colour</th> <th>Code</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>R</td> </tr> <tr> <td>Blue</td> <td>B</td> </tr> <tr> <td>Yellow</td> <td>Y</td> </tr> <tr> <td>Yellow/black stripes</td> <td>X</td> </tr> <tr> <td>Grey</td> <td>G</td> </tr> <tr> <td>Special</td> <td>S*</td> </tr> </tbody> </table> <p>*Special finish please specify</p> </div>	Colour	Code	Red	R	Blue	B	Yellow	Y	Yellow/black stripes	X	Grey	G	Special	S*
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