

# BME680, BME688

## Shipment and Packaging Details



### BME68x - Shipment and Packaging Details

Document revision	1.1
Document release date	February 2025, valid from July 2025 onwards
Document number	BST-BME68x-SP000-01
Sales Part Number(s)	0273 141 312, 0273 017 016
Notes	Data and descriptions in this document are subject to change without notice. Product photos and pictures are for illustration purposes only and may differ from the real product appearance. The technical details and legal disclaimer of the respective product data sheet apply.

# Table of Contents

<b>1 Inner box</b> .....	<b>3</b>
<b>2 Outer Box</b> .....	<b>4</b>
2.1 Dimensions .....	4
2.2 Weights .....	5
<b>3 Bar Code labeling</b> .....	<b>6</b>
3.1 Label design and fields .....	6
3.2 Label example: BMA253 .....	7
<b>4 Reel dimensions</b> .....	<b>7</b>
<b>5 Document history and modification</b> .....	<b>8</b>

# 1 Inner box



Picture 1: Open box with reel

Table 1: Dimension of inner box



## 2 Outer Box



### 2.1 Dimensions

The size of the outer box depends on delivered quantity.

Table 2: Dimension and capacity of outer boxes

Carton Type	Capacity	Dimension
Carton 2	Up to 3 inner boxes	42*42*15 cm
Carton 5	Up to 6 inner boxes	42*42*28 cm
Carton 10	Up to 11 inner boxes	42*42*39 cm
Carton 15	Up to 15 inner boxes	42*42*68 cm

## 2.2 Weights

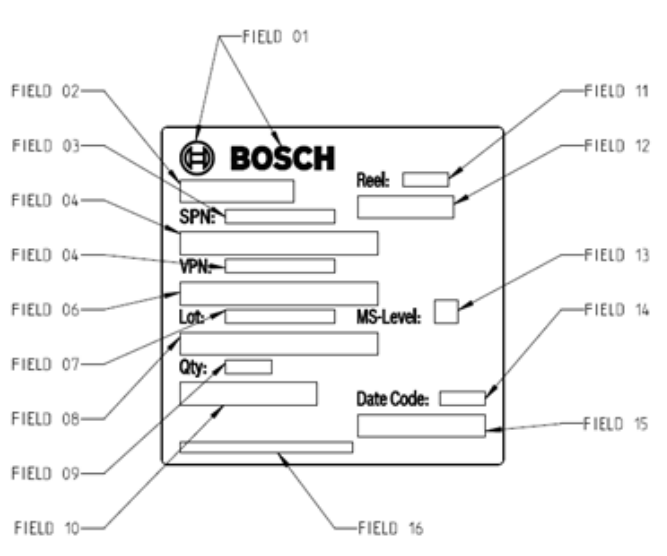
Table 3: Weights

Weight [kg]* depending on reels in carton:	Carton 2	Carton 5	Carton 10	Carton 15
1 reel	1.4	1.5	1.5	2.3
2 reels	1.9	2.0	2.1	2.8
3 reels	2.5	2.6	2.6	3.4
4 reels	-	3.1	3.2	3.9
5 reels	-	3.7	3.7	4.5
6 reels	-	4.2	4.3	5
7 reels	-	-	4.8	5.6
8 reels	-	-	5.4	6.1
9 reels	-	-	5.9	6.7
10 reels	-	-	6.5	7.2
11 reels	-	-	7.0	7.8
12 reels	-	-	-	8.3
13 reels	-	-	-	8.9
14 reels	-	-	-	9.4
15 reels	-	-	-	10.0

\* Weights may vary slightly depending on product and inner box

### 3 Bar Code labeling

#### 3.1 Label design and fields



The dimension of the bar code label is approximately 72mm x 73mm (h x w).

Notes:

- The ink on the label is lead-free.
- Heat-pressure method for label is used.
- Bar code label is on reel and the inner box

Table 4: Label fields description

Field	Description	Format
01	Bosch Symbol	Image
02	Part description	Text
03	Sales Part Number (SPN)	Text
04	Bosch internal number (VPN)	Barcode
05	Lot Number	Text
06	Lot Number	Barcode
07	Quantity	Text
08	Quantity	Barcode
09	Reel number	Text
10	Reel number	Barcode
11	MS-Level	Text
12	Date Code	Text (yy/ww)
13	Date Code	Barcode
14	CoO / Made in*	Text
15	CoO / Made in*	Text
16	CoO / Made in*	Text

\* except for Taiwan: only Made in Taiwan, no CoO

### 3.2 Label example: BMA253



### 4 Reel dimensions

- The reel size is 13"
- 1 reel contains 6,000 parts

REV	DESCRIPTION	DATE	INT
1	Add Tolerance for COO	04/26/2012	Person
2	Initial tolerance for COO (initial tolerance from Rev 01)	04/26/2012	Person
3	Revised by the customer and Advantek (initial tolerance)	05/03/12	PLM
4	Revised KT and VED tolerance	11/26/2013	PLM
5	Revised US Patent Number to sign drawing of labels	03/14/2012	NSU

Part Number	Flange Combination	Nominal	W1	W2 MAX
FC30028W(BL)	FC30028WB(L)-FC30028WB(BL)	8mm	8.8mm ±1.7/0.4	14.6mm
FC30018W(BL)	FC30018WB(L)-FC30018WB(BL)	8mm	15.8mm ±1.7/0.4	18.6mm
FC30019W(BL)	FC30019WB(L)-FC30019WB(BL)	18mm	18.8mm ±1.7/0.4	22.6mm
FC30029W(BL)	FC30029WB(L)-FC30029WB(BL)	24mm	24.8mm ±1.7/0.4	30.6mm
FC30039W(BL)	FC30039WB(L)-FC30039WB(BL)	30mm	30.8mm ±1.7/0.4	36.6mm
FC30049W(BL)	FC30049WB(L)-FC30049WB(BL)	44mm	44.8mm ±1.7/0.4	60.6mm
FC30059W(BL)	FC30059WB(L)-FC30059WB(BL)	48mm	48.8mm ±1.7/0.4	66.6mm
FC30069W(BL)	FC30069WB(L)-FC30069WB(BL)	48mm	8.8mm ±1.7/0.4	14.6mm
FC30079W(BL)	FC30079WB(L)-FC30079WB(BL)	48mm	15.8mm ±1.7/0.4	18.6mm
FC30089W(BL)	FC30089WB(L)-FC30089WB(BL)	48mm	15.8mm ±1.7/0.4	22.6mm
FC30099W(BL)	FC30099WB(L)-FC30099WB(BL)	48mm	15.8mm ±1.7/0.4	26.6mm
FC30109W(BL)	FC30109WB(L)-FC30109WB(BL)	48mm	15.8mm ±1.7/0.4	30.6mm
FC30119W(BL)	FC30119WB(L)-FC30119WB(BL)	48mm	15.8mm ±1.7/0.4	34.6mm
FC30129W(BL)	FC30129WB(L)-FC30129WB(BL)	48mm	44.8mm ±1.7/0.4	60.6mm
FC30139W(BL)	FC30139WB(L)-FC30139WB(BL)	48mm	44.8mm ±1.7/0.4	66.6mm
FC30149W(BL)	FC30149WB(L)-FC30149WB(BL)	48mm	44.8mm ±1.7/0.4	72.6mm
FC30159W(BL)	FC30159WB(L)-FC30159WB(BL)	48mm	44.8mm ±1.7/0.4	78.6mm
FC30169W(BL)	FC30169WB(L)-FC30169WB(BL)	48mm	44.8mm ±1.7/0.4	84.6mm
FC30179W(BL)	FC30179WB(L)-FC30179WB(BL)	48mm	44.8mm ±1.7/0.4	90.6mm
FC30189W(BL)	FC30189WB(L)-FC30189WB(BL)	48mm	44.8mm ±1.7/0.4	96.6mm
FC30199W(BL)	FC30199WB(L)-FC30199WB(BL)	48mm	44.8mm ±1.7/0.4	102.6mm
FC30209W(BL)	FC30209WB(L)-FC30209WB(BL)	48mm	44.8mm ±1.7/0.4	108.6mm
FC30219W(BL)	FC30219WB(L)-FC30219WB(BL)	48mm	44.8mm ±1.7/0.4	114.6mm
FC30229W(BL)	FC30229WB(L)-FC30229WB(BL)	48mm	44.8mm ±1.7/0.4	120.6mm
FC30239W(BL)	FC30239WB(L)-FC30239WB(BL)	48mm	44.8mm ±1.7/0.4	126.6mm
FC30249W(BL)	FC30249WB(L)-FC30249WB(BL)	48mm	44.8mm ±1.7/0.4	132.6mm
FC30259W(BL)	FC30259WB(L)-FC30259WB(BL)	48mm	44.8mm ±1.7/0.4	138.6mm
FC30269W(BL)	FC30269WB(L)-FC30269WB(BL)	48mm	44.8mm ±1.7/0.4	144.6mm
FC30279W(BL)	FC30279WB(L)-FC30279WB(BL)	48mm	44.8mm ±1.7/0.4	150.6mm
FC30289W(BL)	FC30289WB(L)-FC30289WB(BL)	48mm	44.8mm ±1.7/0.4	156.6mm
FC30299W(BL)	FC30299WB(L)-FC30299WB(BL)	48mm	44.8mm ±1.7/0.4	162.6mm
FC30309W(BL)	FC30309WB(L)-FC30309WB(BL)	48mm	44.8mm ±1.7/0.4	168.6mm
FC30319W(BL)	FC30319WB(L)-FC30319WB(BL)	48mm	44.8mm ±1.7/0.4	174.6mm
FC30329W(BL)	FC30329WB(L)-FC30329WB(BL)	48mm	44.8mm ±1.7/0.4	180.6mm
FC30339W(BL)	FC30339WB(L)-FC30339WB(BL)	48mm	44.8mm ±1.7/0.4	186.6mm
FC30349W(BL)	FC30349WB(L)-FC30349WB(BL)	48mm	44.8mm ±1.7/0.4	192.6mm
FC30359W(BL)	FC30359WB(L)-FC30359WB(BL)	48mm	44.8mm ±1.7/0.4	198.6mm
FC30369W(BL)	FC30369WB(L)-FC30369WB(BL)	48mm	44.8mm ±1.7/0.4	204.6mm
FC30379W(BL)	FC30379WB(L)-FC30379WB(BL)	48mm	44.8mm ±1.7/0.4	210.6mm
FC30389W(BL)	FC30389WB(L)-FC30389WB(BL)	48mm	44.8mm ±1.7/0.4	216.6mm
FC30399W(BL)	FC30399WB(L)-FC30399WB(BL)	48mm	44.8mm ±1.7/0.4	222.6mm
FC30409W(BL)	FC30409WB(L)-FC30409WB(BL)	48mm	44.8mm ±1.7/0.4	228.6mm

Ao	3.30	+/- 0.1
Bp	3.30	+/- 0.1
Ko	1.10	+/- 0.1
F	5.50	+/- 0.1
P1	8.00	+/- 0.1
W	12.00	+/- 0.3

(I) Measured from centreline of sprocket hole to centreline of pocket.  
 (II) Cumulative tolerance of 10 sprocket holes is ± 0.20.  
 (III) Measured from centreline of sprocket hole to centreline of pocket.  
 (IV) Other material available.  
 (V) Dimension measured to 1st/2nd/3rd/4th/5th/6th/7th/8th/9th/10th.  
 ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.

## 5 Document history and modification

Rev. No	Chapter	Description of modification/changes	Date
1.0	all	Initial release	May 2021
1.1	All	Minor changes to overall design.	February 2025
	1	New inner box dimensions	
	2	New capacities and weights	
	Cover page	SPN removed (0273 141 229 discontinued)	
	-	Disclaimer removed and a reference added to the note in the first page	



**Bosch Sensortec GmbH**

Gerhard-Kindler-Straße 9  
72770 Reutlingen / Germany

[contact@bosch-sensortec.com](mailto:contact@bosch-sensortec.com)  
[www.bosch-sensortec.com](http://www.bosch-sensortec.com)

Modifications reserved

Document number: BST-BME68x-SP000-01