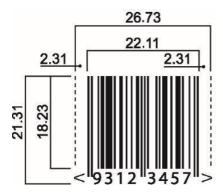


# EAN-8 barcode

#### **Fact Sheet**

The EAN-8 barcode is used to encode a GTIN-8 and is intended for scanning at retail Point-of-Sale (POS) only.

Figure 1: EAN-8 barcode at nominal size (100%)



**Note**: Figure is not to scale. Measurements are in millimetres.

## **Magnification (X-dimension)**

The specified magnification (X-dimension) range for an EAN-8 barcode being scanned at retail POS is between 80% and 200% (X-dimension 0.26mm - 0.66mm).

These barcodes may only be printed using magnification below 80% (X-dimension below 0.26mm) under the following conditions:

- The allowance for X-dimensions between 0.249 mm and 0.26 mm is only applicable to on demand (e.g., thermal, laser) print processes. For all other printing processes, an X-dimension of 0.264 millimetre (magnification of 80%) is attainable and is the minimum allowable size.
- When printing a minimum symbol with any method of printing, the area provided for printing the symbol and the required Quiet Zone SHOULD never be less than the area required for an X-dimension of 0.26 mm (or magnification of 80%).

Page **1** of **3** 



### **Human Readable Interpretation**

The Human Readable Interpretation should be printed beneath the barcode and must show all the digits encoded in the barcode.

The recommended typeface for the Human Readable Interpretation is a monospaced font type, such as OCR-B, Sans serif or Arial. Bold, italics, light or narrow versions of a font SHOULD NOT be used.

### **Symbol Height**

The dark bars forming the left, centre and right guard bar patterns shall be extended downward by 5X (e.g., 1.65mm at X-dimension 0.33mm). See Table 1 for height of bars at various X-dimensions.

Page **2** of **3** August 2023



Table 1: EAN-8 barcode dimensions

Magnification	X-dimension	Width	Bar Height	Left Quiet Zone	Right Quiet Zone
80%	0.26	17.69	14.58	1.85	1.85
85%	0.28	18.79	15.50	1.96	1.96
90%	0.30	19.90	16.41	2.08	2.08
95%	0.31	21.00	17.32	2.19	2.19
100%	0.33	22.11	18.23	2.31	2.31
105%	0.34	23.22	19.14	2.43	2.43
110%	0.36	24.32	20.05	2.54	2.54
115%	0.38	25.43	20.96	2.66	2.66
120%	0.40	26.53	21.88	2.77	2.77
125%	0.41	27.64	22.79	2.89	2.89
130%	0.43	28.74	23.70	3.00	3.00
135%	0.45	29.85	24.61	3.12	3.12
140%	0.46	30.95	25.52	3.23	3.23
145%	0.48	32.06	26.43	3.35	3.35
150%	0.50	33.17	27.35	3.47	3.47
155%	0.51	34.27	28.26	3.58	3.58
160%	0.53	35.38	29.17	3.70	3.70
165%	0.54	36.48	30.08	3.81	3.81
170%	0.56	37.59	30.99	3.93	3.93
175%	0.58	38.69	31.90	4.04	4.04
180%	0.59	39.80	32.81	4.16	4.16
185%	0.61	40.90	33.73	4.27	4.27
190%	0.63	42.01	34.64	4.39	4.39
195%	0.64	43.11	35.55	4.50	4.50
200%	0.66	44.22	36.46	4.62	4.62

#### Notes:

- Width = width of barcode excluding Quiet Zones.
- Bar Height = bar height excluding guard bar patterns.
- To allow for possible ink spread, allow slightly more than the minimum required Quiet Zone.
- All measurements are in millimetres.

Page **3** of **3**