Australia

## 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 0.26 mm 0.66 mm ).

These barcodes may only be printed using magnification below 80\% (Xdimension below 0.26 mm ) 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 $80 \%$ ).


## 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 5 X (e.g., 1.65 mm at X-dimension 0.33 mm ). See Table 1 for height of bars at various X -dimensions.

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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.

