

**MECHANICAL DATA**

|   |  |
|---|--|
| CASE DIMENSIONS (excluding brackets)    | W1183mm x H246mm x D33mm                                     |
| DISPLAY VIEWING AREA                    | W1117mm x H166mm   |
| CASE CONSTRUCTION                       | Aluminium, textured matt black powder coated finish          |
| WEIGHT                                  | 4.5kg  |
| CABLE EXIT POINTS (as viewed from back) | Rear panel, top left*, top right, bottom left*, bottom right |

\*Available for ITxPT

**DISPLAY DATA**

|                          |   |
|--------------------------|---|
| MAXIMUM CHARACTER HEIGHT | 166mm   |
| BRIGHTNESS               | 3500 cd/m <sup>2</sup>  |
| TEXT FORMAT              | Static, paging or scrolling, 1 or 2 lines   |
| FONT OPTIONS             | Hanover fonts as supplied with HELEN programming software plus Windows™ fonts                   |
| DISPLAY TECHNOLOGY       | High visibility LEDs (with integrated ambient light sensor)                                     |
| COMMUNICATION INTERFACES | RS485 (standard), RS232, IBIS, J1708, Ethernet (via controller), Ethernet M12 connector (ITxPT) |

**LED SPECIFICATION**

|                            |  |
|----------------------------|--|
| LIFETIME                   | Approx. 100,000 hours dependent on temperature and current |
| SIZE AND TYPE              | PLCC-2 SMT package W2.8mm x H3.5mm x D1.9mm                |
| DOMINANT COLOUR WAVELENGTH | Amber 588 - 594nm (typically 591nm)                        |
| PITCH                      | Horizontal 7mm / vertical 8.7mm                            |
| VIEWING ANGLE (horizontal) | 120°   |

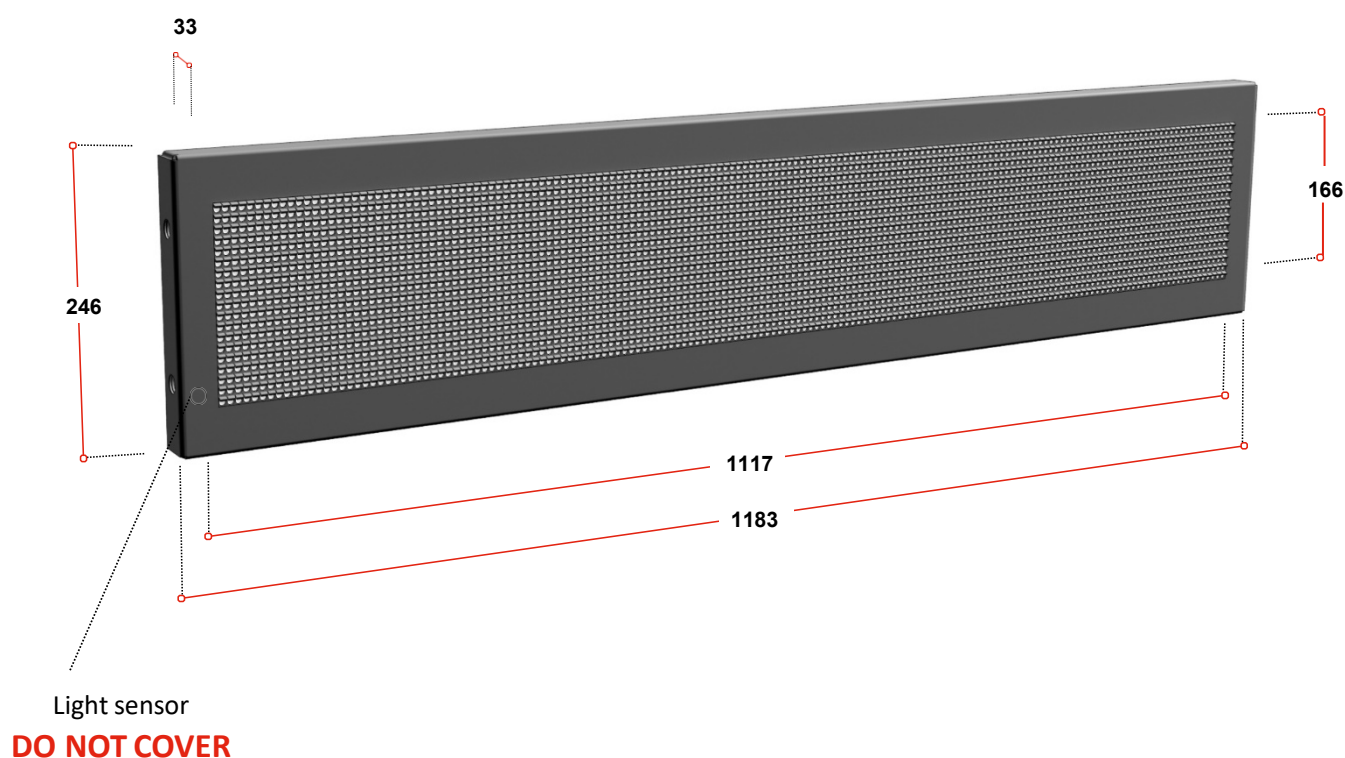
**ELECTRICAL DATA**

|  |  |
|--|--|
| OPERATING VOLTAGE  | 24Vdc nominal (18-32V) / 12Vdc nominal (10-32V)          |
| NORMAL POWER CONSUMPTION<br>(33% LEDs lit at 50% brightness)   | 12 watts (0.49A with 24V input and 0.98A with 12V input) |
| MAXIMUM POWER CONSUMPTION<br>(all LEDs lit at 100% brightness) | 33 watts (1.36A with 24V input and 2.72A with 12V input) |
| ELECTRICAL PROTECTION  | Anti-surge, reverse polarity                             |
| DISPLAY PROCESSOR FUSE RATING                                  | 5A quick blow  |

**OPERATIONAL DATA**

|                             |                                 |
|-----------------------------|---------------------------------|
| TEMPERATURE RANGE (STORAGE) | -20°C to +70°C (-40°C to +80°C) |
|-----------------------------|---------------------------------|

Hanover Displays LED signs meet United Nations Automotive EMC Directive ECE R10 as amended. Certificate No. E11\*10R06/01\*10973\*01.  
Hanover Displays LED signs meet United Nations Automotive Burning Behaviour Directive ECE R118. Certificate No. E11\*118R03/01\*0283\*00.  
Equality Act 2010 & PSV Accessibility Regulations compliant. Details subject to change.



| MEASUREMENTS                         | WIDTH (mm) | HEIGHT (mm) | DEPTH (mm) |
|--------------------------------------|------------|-------------|------------|
| CASE DIMENSIONS (excluding brackets) | 1183       | 246         | 33         |
| DISPLAY VIEWING AREA                 | 1117       | 166         |            |

| MECHANICAL DATA                         |  |
|---|--|
| CASE CONSTRUCTION                       | Aluminium, textured matt black powder coated finish          |
| WEIGHT                                  | 4.5kg  |
| CABLE EXIT POINTS (as viewed from back) | Rear panel, top left*, top right, bottom left*, bottom right |

\*Available for ITxPT