

# SEEN SAFETY

## High-visibility workwear requirements

SEEN IRIS 860 sensors use an infrared laser to detect retroreflective tape on high-visibility workwear. To ensure reliable detection the workwear should conform to the following requirements:

| <h3>1. Standards compliant</h3> <p>SEEN recommend a high-visibility vest that conforms to one of the following standards (or an equivalent standard):</p> <table border="1"> <thead> <tr> <th>Region</th> <th>Standard</th> <th>Type</th> <th>Class</th> </tr> </thead> <tbody> <tr> <td>USA / Can</td> <td>ANSI / ISEA 107:2020</td> <td>Vest</td> <td>2</td> </tr> <tr> <td>Europe</td> <td>EN ISO 20471:2013</td> <td>Vest</td> <td>2</td> </tr> <tr> <td>Aust/NZ</td> <td>AS / NZS 4602.1:2011</td> <td>Vest</td> <td>2</td> </tr> <tr> <td>Japan</td> <td>JIS T 8127:2020</td> <td>Vest</td> <td>Should meet the minimum reflective material requirements of JIS T 8127:2020 Class 2, and include shoulder bands.</td> </tr> </tbody> </table> | Region  | Standard | Type   | Class | USA / Can | ANSI / ISEA 107:2020 | Vest | 2 | Europe | EN ISO 20471:2013 | Vest | 2 | Aust/NZ | AS / NZS 4602.1:2011 | Vest | 2 | Japan | JIS T 8127:2020 | Vest | Should meet the minimum reflective material requirements of JIS T 8127:2020 Class 2, and include shoulder bands. | <h3>2. Shoulder bands</h3> <p>The high-visibility vest should have reflective bands over each shoulder, and one or two horizontal bands around the torso. This format ensures sufficient reflective material is visible to the sensor when the person is standing side-on or is crouched down.</p> <p>Must be worn with the front zip closed.</p> |
|---|---|----------|--|-------|-----------|----------------------|------|---|--------|-------------------|------|---|---------|----------------------|------|---|-------|-----------------|------|--|---|
| Region  | Standard  | Type     | Class  |       |           |                      |      |   |        |                   |      |   |         |                      |      |   |       |                 |      |  |   |
| USA / Can   | ANSI / ISEA 107:2020  | Vest     | 2  |       |           |                      |      |   |        |                   |      |   |         |                      |      |   |       |                 |      |  |   |
| Europe  | EN ISO 20471:2013   | Vest     | 2  |       |           |                      |      |   |        |                   |      |   |         |                      |      |   |       |                 |      |  |   |
| Aust/NZ   | AS / NZS 4602.1:2011  | Vest     | 2  |       |           |                      |      |   |        |                   |      |   |         |                      |      |   |       |                 |      |  |   |
| Japan   | JIS T 8127:2020   | Vest     | Should meet the minimum reflective material requirements of JIS T 8127:2020 Class 2, and include shoulder bands. |       |           |                      |      |   |        |                   |      |   |         |                      |      |   |       |                 |      |  |   |
| <h3>3. 50mm (2") wide retroreflective tape</h3> <p>To ensure reliable detection the bands of retroreflective tape should be a minimum of 50mm (2 inches) wide.</p>  | <h3>4. In reasonable condition</h3> <p>IRIS 860 sensors can reliably detect high-visibility workwear in less-than-new condition, however abrasion and repeated washing will gradually dislodge the reflective glass-beads, eventually making detection difficult or impossible.</p> <p><b>Check the maximum number of wash cycles indicated on the label. Replace if old, faded, or visibly worn. Uniforms that are washed regularly may no longer be detectable due to degradation of the reflective tape.</b></p> |          |  |       |           |                      |      |   |        |                   |      |   |         |                      |      |   |       |                 |      |  |   |



If your PPE/workwear/uniform differs from these recommendations, you must test that it will provide consistently reliable detection in your conditions. If you have any questions please email [support@seensafety.com](mailto:support@seensafety.com).

**IMPORTANT.** SEEN IRIS 860 sensors can provide collision warning assistance to the operator but do not replace the need for proper operator training and best practice safe operating procedure. While IRIS 860 sensors can alert the machine operator to a potential collision, the operator is always fully responsible for the safe operation of the equipment. IRIS 860 sensors do not comply with the regulatory standards required for devices which are intended to directly control vehicle or machine safety functions. Using the sensor accessory port to control a vehicle or machine function is entirely at your own risk.