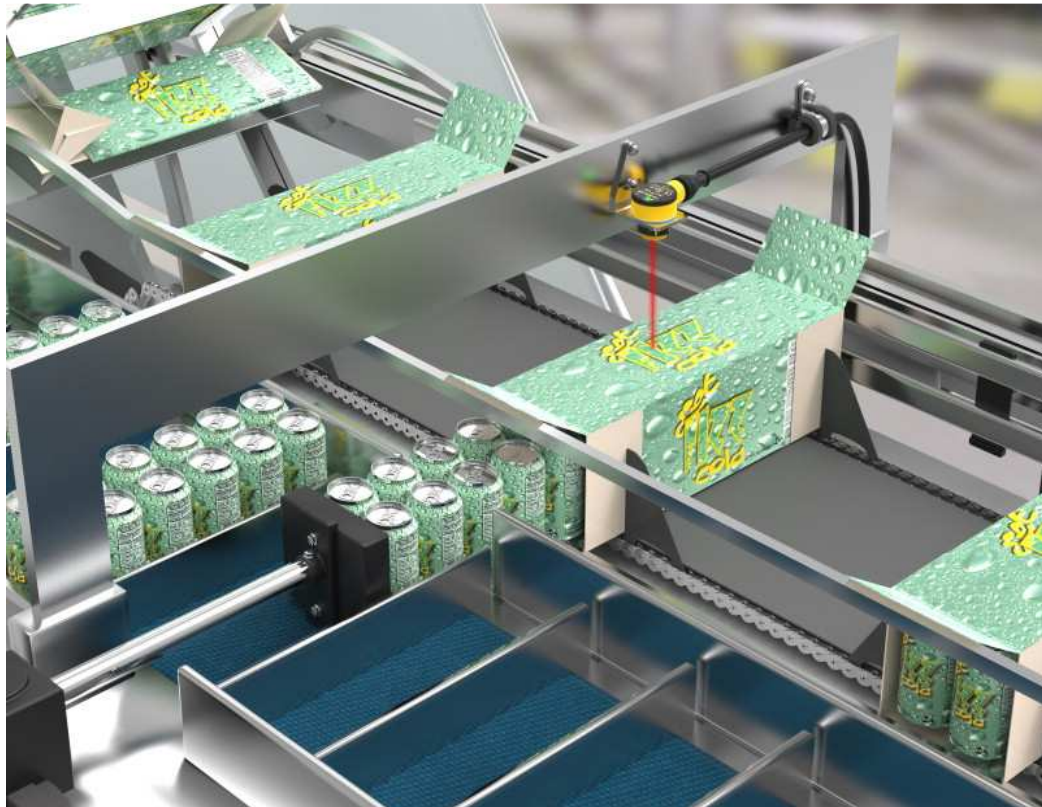


Application Note – T18-2 Washdown Sensor

Box Detection in a Case Packer

Challenge

- Case packers are subject to washdown procedures to get rid of any product spillage
- Cases are often multicolored and have a glossy finish that has potential to cause a chattering output



Features

- IP69K, FDA-grade materials
- Ultrasonically welded housing and epoxy encapsulated cavities
- High excess gain with bright LED spot size

Benefits

- Built with FDA grade materials and tested to IP69K to withstand 1200PSI and 180 °F washdown
- Ultrasonically-welded joints eliminate need for adhesives and effectively seals out moisture with one-piece construction
- High excess gain creates minimal color sensitivity and prevents chattering output on difficult targets

Product Information

T18-2 Washdown Sensor

Features

- Highly visible output and dual-function power and stability indicators
- Laser etched markings for longevity
- Powerful and bright visible red emitter for easy alignment and setup, excluding IR models
- Operates in temperatures ranging from -40 to +70 °C
- IP69K washdown rated & ECOLAB™ certified

Part Numbers

| Polarized Retroreflective | | |
|---|-------------------|---------------|
| Range (m) | Output | Model |
| 6 m (19.7 ft) with BRT-84 reflector | Complementary NPN | T18-2VNLP-Q8 |
| | Complementary PNP | T18-2VPLP-Q8 |
| 6 m (19.7 ft) with BRT-84 reflector, with gain adjustment potentiometer | Complementary NPN | T18-2VNLPC-Q8 |
| | Complementary PNP | T18-2VPLPC-Q8 |

| Diffuse | | |
|---|-------------------|--------------|
| Range (m) | Output | Model |
| 750 mm (29.5 in) with adjustment | Complementary NPN | T18-2VNDL-Q8 |
| | Complementary PNP | T18-2VPDL-Q8 |
| 300 mm (11.8 in) with gain adjustment potentiometer | Complementary NPN | T18-2VNDS-Q8 |
| | Complementary PNP | T18-2VPDS-Q8 |

| Fixed Field | | | |
|-------------|-------------------|----------------------------|-------------------------|
| Range (m) | Output | Visible Red Emitter Models | Infrared Emitter Models |
| 30 mm | Complementary NPN | T18-2VNFF30-Q8 | T18-2VNFF30IR-Q8 |
| | Complementary PNP | T18-2VPFF30-Q8 | T18-2VPFF30IR-Q8 |
| 50 mm | Complementary NPN | T18-2VNFF50-Q8 | T18-2VNFF50IR-Q8 |
| | Complementary PNP | T18-2VPFF50-Q8 | T18-2VPFF50IR-Q8 |
| 75 mm | Complementary NPN | T18-2VNFF75-Q8 | T18-2VNFF75IR-Q8 |
| | Complementary PNP | T18-2VPFF75-Q8 | T18-2VPFF75IR-Q8 |
| 100 mm | Complementary NPN | T18-2VNFF100-Q8 | T18-2VNFF100IR-Q8 |
| | Complementary PNP | T18-2VPFF100-Q8 | T18-2VPFF100IR-Q8 |
| 150 mm | Complementary NPN | T18-2VNFF150-Q8 | T18-2VNFF150IR-Q8 |
| | Complementary PNP | T18-2VPFF150-Q8 | T18-2VPFF150IR-Q8 |
| 200 mm | Complementary NPN | T18-2VNFF200-Q8 | T18-2VNFF200IR-Q8 |
| | Complementary PNP | T18-2VPFF200-Q8 | T18-2VPFF200IR-Q8 |

| Emitter/Receiver | | | |
|------------------|---|-------------------|--------------|
| Type | Range (m) | Output | Model |
| Emitter | 25 m (82 ft) | None | T18-2NAEL-Q8 |
| | 25 m (82 ft) with beam inhibit | | T18-2NAEJ-Q8 |
| | 25 m (82 ft) with LED adjustment potentiometer | | T18-2NAES-Q8 |
| Receiver | 25 m (82 ft) | Complementary NPN | T18-2VNRL-Q8 |
| | | Complementary PNP | T18-2VPRL-Q8 |
| | 25 m (82 ft) with gain adjustment potentiometer | Complementary NPN | T18-2VNRS-Q8 |
| | | Complementary PNP | T18-2VPRS-Q8 |

Accessories

