

Application Note – T18-2 Washdown Sensor

Poultry Processing

Challenge

- Poultry processing has some of the harshest high pressure high temperature washdown procedures
- Harsh cleaning chemicals can deteriorate certain materials over time
- Temperature cycling; sensors are cleaned with 80 °C water and returned to cool environment creating condensation in the sensor
- Temperature cycling causes expansion and contraction of materials that can breakdown adhesives



Features & Benefits

- IP69K rating with ultrasonically welded joints to prevent water ingress
- FDA approved housing passed ECOLAB™ submersion testing for 28 days in a range of chemicals
- Fully epoxy potted to eliminate internal air gaps that allow condensation
- Plastic materials, that expand and contract at the same rate, and are ultrasonically welded, rather than glued, and will not weaken due to temperature cycling

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

