T18-2 Washdown Sensors



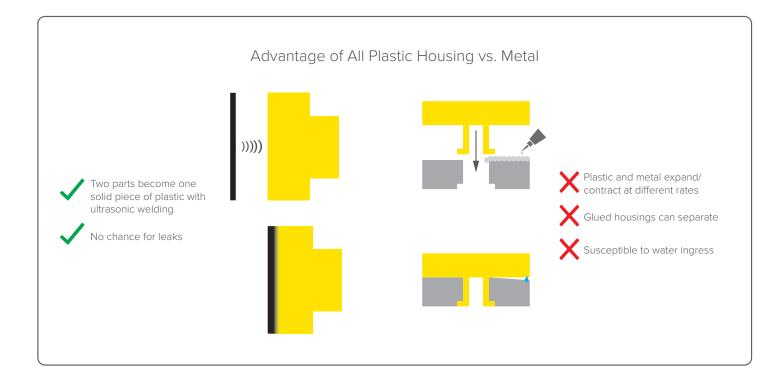
Washdown Sensors for Harsh Environments

- IP69K epoxy encapsulated for maximum reliability in wet, thermal shock environments
- ECOLAB $\ensuremath{^{\rm M}}$ certified FDA grade plastic housing
- Ultrasonically welded joints for superior sealing and durability
- Improved hygienic design for easier cleaning



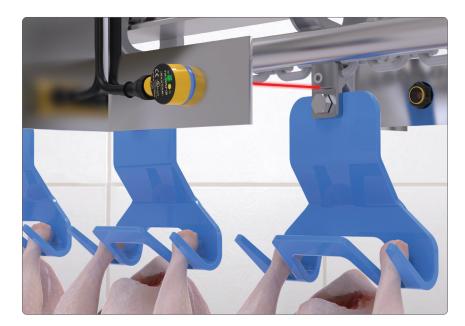
Next Generation of Washdown Sensors





Emitter/Re	mitter/Receiver				
Туре	Range (m)	Output	Mo		
	25 m (82 ft)	None	T18-2N		
Emitter	25 m (82 ft) with beam inhibit		T18-2N		
	25 m (82 ft) with LED adjustment potentiometer		T18-2N		
	25 m (82 ft)	Complementary NPN	T18-2\		
Dessiver		Complementary PNP	T18-2\		
Receiver	25 m (82 ft) with gain adjustment potentiometer	Complementary NPN	T18-2V		
		Complementary PNP	T18-2\		

	Fixed Fi	eld			
	Range (m)	Output	Visible Red Emitter Models*	Infrared I Mode	
	30 mm	Complementary NPN	T18-2VNFF30-Q8	T18-2VNFF	
		Complementary PNP	T18-2VPFF30-Q8	T18-2VPFF	
	50 mm	Complementary NPN	T18-2VNFF50-Q8	T18-2VNFF	
		Complementary PNP	T18-2VPFF50-Q8	T18-2VPFF	
	75	Complementary NPN	T18-2VNFF75-Q8	T18-2VNFF	
	75 mm	Complementary PNP	T18-2VPFF75-Q8	T18-2VPFF	
	100 mm	Complementary NPN	T18-2VNFF100-Q8	T18-2VNFF	
		Complementary PNP	T18-2VPFF100-Q8	T18-2VPFF	
	150 mm	Complementary NPN	T18-2VNFF150-Q8	T18-2VNFF	
		Complementary PNP	T18-2VPFF150-Q8	T18-2VPFF	
	200 mm	Complementary NPN	T18-2VNFF200-Q8	T18-2VNFF	
		Complementary PNP	T18-2VPFF200-Q8	T18-2VPFF2	



Polarized Retroreflective

/lodel*

2NAEL-Q8

2NAEJ-Q8

NAES-Q8

2VNRL-Q8

2VPRL-Q8

VNRS-Q8

2VPRS-Q8

I Emitter dels*

F30IR-Q8 F30IR-Q8 F50IR-Q8 F50IR-Q8 F75IR-Q8 F75IR-Q8 F100IR-Q8 F100IR-Q8 F150IR-Q8

F150IR-Q8

F200IR-Q8

F200IR-Q8

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

Integral 4-pin M12/Euro-style quick disconnect models are listed.
To order the 2 m (6 ft) cable model, replace the suffix "-Q8" with "-2M"
To order the 9 m (30 ft) cable model, replace the suffix "-Q8" with "-9M"

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

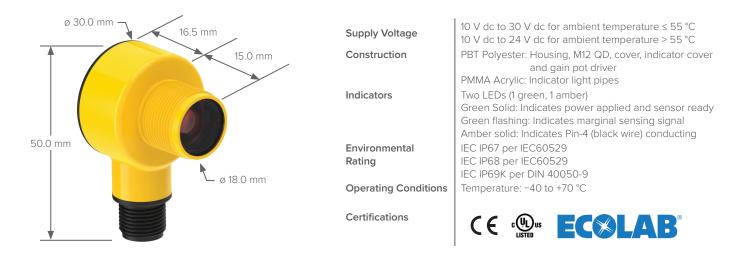
Challenge

- 1500 psi high pressure water washdown
- Harsh chemicals used in cleaning 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

Solution

- IP67/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, will not weaken due to temperature cycling





Accessories _



SMB18A



SMBAMS22P add -SS to model number for stainless steel models



SMB18FA



ACC-T18-2-GSK-FDA-10 sold in packs of 10





Banner Engineering Corp. 9714 10th Avenue North • Minneapolis, MN 55441 • 1-888-373-6767 • www.bannerengineering.com