DRW171445AB



Specifications			
흥 NPN open collector output	BL13-TDT		
	BL13-TDT-P		
Sensing type	Through-beam		
Applicable pipe	Using binding band: Ø6 to 13mm, Using protection bracket: Ø12.7mm(1/2 inch)		
A construction to another	transparent pipes in 1mm thickness (FEP (fluoroplastic) or with equivalent transparency		
Standard sensing target	Liquid in a pipe		
Response ume	Max. 2015		
Current consumption	Max 30mA	1070 (hpple 1 - 1. max. 1070)	
ight source	Infrared LED (950nm)		
Operation mode	Light ON/Dark ON switching by operation mode switching button		
Control output	NPN or PNP open collector output •Load voltage: max. 30VDC= Parcificulty sufface: max. 100mA		
Protection circuit	Residual volta	age: max. TVDC==	port over current protection circuit
Indicator	Operation indicator: red LED, Operation mode indicator: green LED		
nsulation resistance	Over 20MΩ (at 500VDC megger)		
Noise immunity	±240V the squ	are wave noise (pulse width:	1µs) by the noise simulator
Dielectric strength	1,000VAC 50/60Hz for 1 minute (between all terminals and case)		
Vibration	1.5mm amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 2 hours		
Shock	500m/s ² (approx. 50G) in each X, Y, Z direction for 3 times		
S z Ambient illumination	Sunlight/Incandescent lamp: max. 3,0001x for each (receiver illumination)		
Ambient temperature	10 to 55°C, storage: -25 to 65°C		
Ambient humidity	35 to 85%RH, storage: 35 to 85%RH		
Protection structure	IP64 (IEC standard)		
Material	Case: Polycarbonate		
Cable	(AWG28, Core diameter: 0.08mm, Number of cores: 19, Insulator diameter: (20,9mm)		
Accessory	Binding band: 2 Anti-slip tube: 2		
Approval			
Weight ^{×2}	Approx, 50g (approx, 13g)		
Connections	Cor	ntrol Output Circi	uit Diagram
		Sensor circuit	Connection
			(brown) +V
		□ •	- O (SIGWII) - V
	NPN	.±	(black) Output Load
	open	2	+ 12-24VDC
	output	output short	Max. 100mA -
(Blue) (Black) (Brown)		over current	T: I I
0V Output +V			(blue) 0V
			- <u> </u>
Load Load		Sensor circuit	Connection
※1 ※2			(brown) +V
		output short	
- +	PNP	当 over current	-
12-24//DC	collector		Max. 100mA +
×1: Load connection for	output	ι <u>ε</u> ζ	(black) Output
PNP output		ž ¹	
※2: Load connection for			(blue) 0V
NPN output			Y
×II SNOT-CITCUIT T		-circuit the control output tern	ninal or supply current over the rated
current protection circuit.			a not output due to the output short over
	Ganon		
Installation			
finstalling this unit at once	le nines it is im	nossible to detect accurately	Install this unit at the rated nines
Jsing binding band: Ø6 to 1	3mm, Usina pro	tection bracket: Ø12.7mm(1/	2 inch)
Binding hand	, - JP	Protection	bracket (sold separately)
- =		~	

Protection bracket (sold separately)

Fix the pipe and the sensor tightly with binding Choose a location on the pipe and attach the sensor and bands and anti-slip tubes as the right figure and the protection bracket cut the spare part of binding bands with scissors



※Be sure that if there is water drop or bubble inner/outer wall of the pipe, it may result in malfunction. *Do not pull the cable with a tensile strength of 30N or over. It may result in fire due to the broken wire. When using photoelectric sensors closely over two units, it may result in malfunction due to mutual interference.

or a knife.

Anti-slin

tube

transform the pipe.

When connecting binding bands, be careful not to

Binding band

(max, 2.5mm width

Pipe: Ø6 to 13mm



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Functions

Laser Welding/Cutting System