BANNER

超聲波))))傳感器

Ultrasonic *Sensors*

BANNER

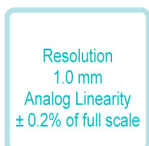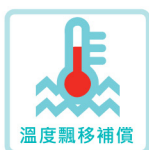# QT50U Series

Long-Range Ultrasonic Sensors

長工作距離超聲波傳感器

- 小型超聲波傳感器, 超聲波盲區200mm.
- 採用外覆特氟龍防護層，提供耐化學腐蝕的型號.
- 使用狹窄的感測光束在狹窄的區域內偵測遠距離目標物，例如儲存槽，而不會受到桶槽壁的繞射干擾.
- 透過按鍵教導和遠端教導程式設定簡化了設定, 增加了安全性以及便利性.

IP67

溫度飄移補償

Resolution
1.0 mm
Analog Linearity
± 0.2% of full scale

液位控制

200 mm   8 m

QT50U, 10-30 V DC

Models	Range	Connection	Output
QT50ULB		2 m	
QT50ULBQ	200 mm to 8 m	5-pin Mini QD	Selectable 0 to 10 V dc or 4 to 20 mA
QT50ULBQ6		5-pin Euro QD	
QT50UDB		2 m	
QT50UDBQ	200 mm to 8 m	5-pin Mini QD	Selectable Dual NPN or PNP
QT50UDBQ6		5-pin Euro QD	

74.1 mm
67.4 mm
84.2 mm
50.8 mm

QT50U Universal Voltage, 85-264 V AC/48-250 V DC

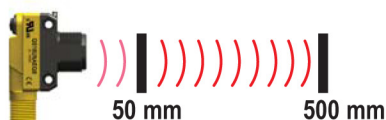| Models	Range	Connection	Output Operation Mode	Output
QT50UVR3W		2 m		
QT50UVR3WQ1	200 mm to 8 m	5-pin Micro QD	Window-limit (complementary outputs)	SPDT e/m relay
QT50UVR3WQ		5-pin Mini QD		
QT50UVR3F		2 m		
QT50UVR3FQ1	200 mm to 8 m	5-pin Micro QD	Pump/level control (pump-in and pump-out logic)	SPDT e/m relay
QT50UVR3FQ		5-pin Mini QD		

此系列亦提供耐酸鹼Teflon規格

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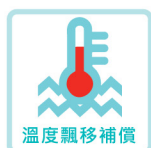
QS18U Series

Right-Angle Ultrasonic Sensors
一體式直角外型超聲波傳感器

- 偵測透明或半透明的材料和不同顏色的物件, 包含透明材質, 透明或閃亮的瓶子, 高度反射性表面, 液體, 或狹小空間內的乾燥物質.
- 感應工作距離在500mm的範圍內.
- 採用通用的WORLD-BEAM外殼, 18mm螺紋前端或側邊安裝式.
- 防護等級為IP67或IP68的型號,適用於惡劣環境條件.
- 透過按鍵教導和遠端教導程式設定,增加了安全性以及便利性.

50 mm **500 mm**

IP67 IP68

溫度飄移補償

Resolution 0.7mm 精度

15.0 mm 33.6 mm
34.5 mm 24.1 mm

QS18U, 12-30 V DC

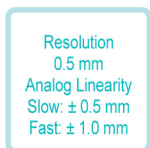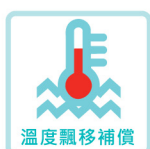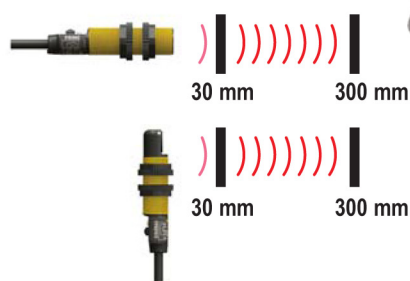| Models NPN	Models PNP	Range	Connection	TEACH Options
QS18UNA	QS18UPA	50 to 500 mm	2 m	按鍵教導型 IP67
QS18UNAQ8	QS18UPAQ8		4-pin Euro QD	
QS18UNAE	QS18UPAE	50 to 500 mm	2 m	按鍵教導型 IP68
QS18UNAEQ8	QS18UPAEQ8		4-pin Euro QD	

S18U Series

Barrel Ultrasonic Sensors

圓柱式超聲波感測器

- 具有極小的盲區，提供前端感測及側邊感測雙選型號
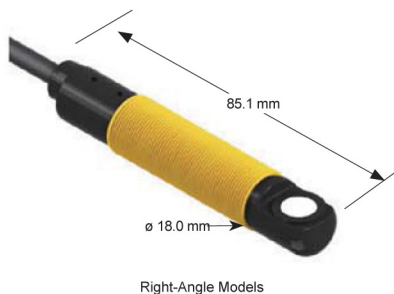- 提供溫度補償，提高感測精準度
- 透過按鍵教導和遠端教導程式設定簡化了設定, 增加了安全性以及便利性.

30 mm   300 mm

30 mm   300 mm

IP67

溫度飄移補償

Resolution
0.5 mm
Analog Linearity
Slow: ± 0.5 mm
Fast: ± 1.0 mm

80.8 mm

ø 18.0 mm

Straight Models

S18U, 10-30 V DC

Models	Range	Connections	Output	Housing Configuration
S18UUA S18UUAQ	30 to 300 mm	2 m 5-pin Euro QD	0 to 10 V dc	Straight
S18UIA S18UIAQ	30 to 300 mm	2 m 5-pin Euro QD	4 to 20 mA	Straight
S18UBA S18UBAQ	30 to 300 mm	2 m 5-pin Euro QD	Bipolar NPN/PNP	Straight

85.1 mm

ø 18.0 mm

Right-Angle Models

S18U Right-Angle

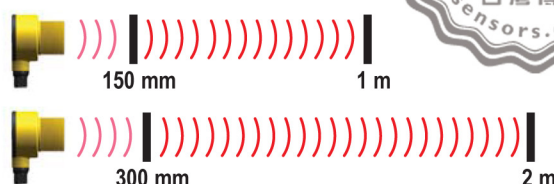| Models	Range	Connections	Output	Housing Configuration
S18UUAR S18UUARQ	30 to 300 mm	2 m 5-pin Euro QD	0 to 10 V dc	Right-Angle
S18UIAR S18UIARQ	30 to 300 mm	2 m 5-pin Euro QD	4 to 20 mA	Right-Angle
S18UBAR S18UBARQ	30 to 300 mm	2 m 5-pin Euro QD	Bipolar NPN/PNP	Right-Angle

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T30U Series

Right-Angle, Long-Range Ultrasonic Sensors
一體式直角外型超聲波傳感器

- 提供用於ON/OFF開關或幫浦/水位控制的雙數位訊號型號.
- 防護等級IP67(NEMA 6)型號, 可抵抗嚴苛工作環境.
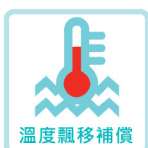- 採用外覆特氟龍防護層,提供耐化學腐蝕的型號.
- 透過按鍵教導和遠端教導程式設定簡化, 增加了安全性以及便利性.

150 mm — 1 m

300 mm — 2 m

Resolution
± 0.25% of measuring distance
Analog Linearity
± 0.5% of full scale

液位控制

ø 40.0 mm
45.0 mm
51.5 mm
ø 30.0 mm

T30U Models

T30U, 12-24 V DC

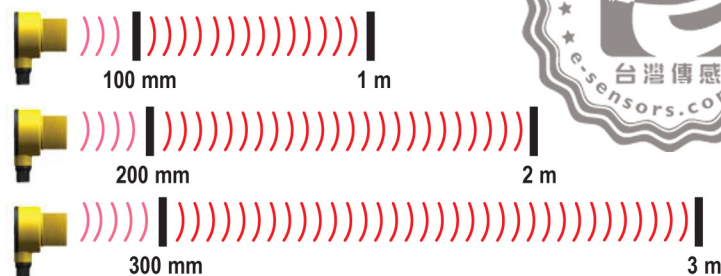| Models	Range	Frequency	Connection	Response Time	Discrete Output(s)	Analog Output
T30UINA			2 m		NPN	
T30UINAQ	150 mm to 1 m	228 kHz	5-pin Euro QD	48 ms		4 to 20 mA
T30UIPA			2 m		PNP	
T30UIPAQ			5-pin Euro QD			
T30UINB			2 m		NPN	
T30UINBQ	300 mm to 2 m†	128 kHz	5-pin Euro QD	96 ms		4 to 20 mA
T30UIPB			2 m		PNP	
T30UIPBQ			5-pin Euro QD			
T30UDNA			2 m		Dual NPN	
T30UDNAQ	150 mm to 1 m	228 kHz	5-pin Euro QD	48 ms		None
T30UDPA			2 m		Dual PNP	
T30UDPAQ			5-pin Euro QD			
T30UDNB			2 m		Dual NPN	
T30UDNBQ	300 mm to 2 m†	128 kHz	5-pin Euro QD	96 ms		None
T30UDPB			2 m		Dual PNP	
T30UDPBQ			5-pin Euro QD			
T30UHNA	150 mm to 1 m	228 kHz	2 m	48 ms	Pump/Level Control Dual NPN	None
T30UHNAQ			5-pin Euro QD			
T30UHNB	300 mm to 2 m†	128 kHz	2 m	96 ms		
T30UHNBQ			5-pin Euro QD			
T30UHPA	150 mm to 1 m	228 kHz	2 m	48 ms	Pump/Level Control Dual PNP	None
T30UHPAQ			5-pin Euro QD			
T30UHPB	300 mm to 2 m†	128 kHz	2 m	96 ms		
T30UHPBQ			5-pin Euro QD			

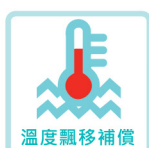此系列亦提供耐酸鹼Teflon規格

T30UX Series

Right-Angle, Long-Range Ultrasonic Sensors
一體式直角外型超聲波傳感器

- 在各種環境溫度範圍提供內置溫度飄移補償的高精度性能.
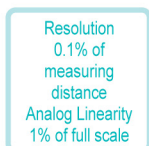- 高防護等級IP67(NEMA 6)型號及封裝式晶片, 可抵抗惡劣環境.
- 透過按鍵教導和遠端教導程式設定, 增加了安全性以及便利性.

IP67

進階版

100 mm — 1 m
200 mm — 2 m
300 mm — 3 m

溫度飄移補償

Resolution
0.1% of
measuring
distance
Analog Linearity
0.25% of full scale

液位控制

ø 40.0 mm
45.0 mm
51.5 mm
ø 30.0 mm

T30UX (Long-range) Models

T30UX, 10-30 V DC

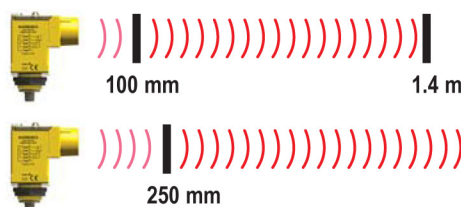| Models	Range	Frequency	Connection	Response Time	Output
T30UXDA / T30UXDAQ8	100 mm to 1 m	224 kHz	2 m / 4-Pin Euro QD	45 ms	Discrete: NPN, PNP, NO, NC
T30UXDB / T30UXDBQ8	200 mm to 2 m	174 kHz	2 m / 4-Pin Euro QD	92 ms	Discrete: NPN, PNP, NO, NC
T30UXDC / T30UXDCQ8	300 mm to 3 m	114 kHz	2 m / 4-Pin Euro QD	135 ms	Discrete: NPN, PNP, NO, NC
T30UXUA / T30UXUAQ8	100 mm to 1 m	224 kHz	2 m / 4-Pin Euro QD	Selectable 45 or 105 ms	Analog: 0 to 10 V dc
T30UXIA / T30UXIAQ8	100 mm to 1 m	224 kHz	2 m / 4-Pin Euro QD	Selectable 45 or 105 ms	Analog: 4 to 20 mA
T30UXUB / T30UXUBQ8	200 mm to 2 m	174 kHz	2 m / 4-Pin Euro QD	Selectable 92 or 222 ms	Analog: 0 to 10 V dc
T30UXIB / T30UXIBQ8	200 mm to 2 m	174 kHz	2 m / 4-Pin Euro QD	Selectable 92 or 222 ms	Analog: 4 to 20 mA
T30UXUC / T30UXUCQ8	300 mm to 3 m	114 kHz	2 m / 4-Pin Euro QD	Selectable 135 or 318 ms	Analog: 0 to 10 V dc
T30UXIC / T30UXICQ8	300 mm to 3 m	114 kHz	2 m / 4-Pin Euro QD	Selectable 135 or 318 ms	Analog: 4 to 20 mA

此系列亦提供耐酸鹼Teflon規格

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Q45U Series

Versatile Ultrasonic Sensors
超功能超聲波感測器

- 可以使用程式記憶卡，在範圍3m, 可用於快速、簡單的參數特定調整.
- 提供數位訊號輸出，用於ON/OFF存在檢測或HIGH/LOW液位控制.
- ON/OFF模式時, 數位訊號模式可偵測目標物是否在設定範圍內或超出設定範圍.
- HIGH/LOW模式時, 數位訊號模式可偵測目標物是否超出設定範圍內,達到液位控制, 張力控制以及其他類似的應用用途.
- 數位訊號模式及類比模式的選擇, 可設定反應時間的特殊功能.
- 透過按鈕和遠端教導程式設定, 增加了安全性以及便利性.

IP67

温度飄移補償

Resolution 0.1% of measuring distance Analog Linearity 1% of full scale

液位控制

100 mm — 1.4 m

250 mm — 3 m

Q45U Discrete Output, 12-24 V DC

Models	Range	Temperature Compensation	Connection	Output Type	Response Time
Q45UBB63DA Q45UBB63DAQ Q45UBB63DAQ6	100 mm to 1.4 m	No	2 m 5-pin Mini QD 5-pin Euro QD	Bipolar NPN/PNP	Programmable 20, 40, 160 or 640 ms
Q45UBB63DAC Q45UBB63DACQ Q45UBB63DACQ6	100 mm to 1.4 m	Yes	2 m 5-pin Mini QD 5-pin Euro QD	Bipolar NPN/PNP	Programmable 20, 40, 160 or 640 ms
Q45UBB63BC Q45UBB63BCQ Q45UBB63BCQ6	250 mm to 3 m†	Yes	2 m 5-pin Mini QD 5-pin Euro QD	Bipolar NPN/PNP	Programmable 40, 80, 320 or 1280 ms

Q45U Analog Output, 15-24 V DC

Models	Range	Temperature Compensation	Connection	Output Type	Response Time
Q45ULIU64ACR Q45ULIU64ACRQ Q45ULIU64ACRQ6	100 mm to 1.4 m	Yes	2 m 5-pin Mini QD 5-pin Euro QD	Selectable 0 to 10 V dc or 4 to 20 mA	Adjustable 40 to 1280 ms
Q45ULIU64BCR Q45ULIU64BCRQ Q45ULIU64BCRQ6	250 mm to 3 m†	Yes	2 m 5-pin Mini QD 5-pin Euro QD	Selectable 0 to 10 V dc or 4 to 20 mA	Adjustable 80 to 2560 ms

44.5 mm
54.1 mm
87.6 mm
30.0 mm

44.5 mm
79.4 mm
87.6 mm
30.0 mm

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more sensors, more solutions

Ultrasonic Solutions

Ultrasonic Sensors