

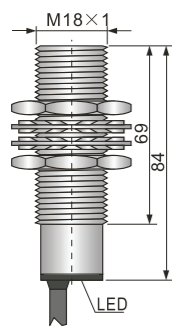
Ultrasonic sensor UN series (one output)

Specifications

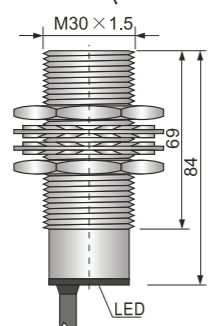
Size	M18×1		M30×1.5	φ40+M30×1.5	φ73+M30×1.5	
Switch output	NPN	UN18-05N	UN18-10N	UN30-20N	UNT40-40N	UNT73-60N
	PNP	UN18-05P	UN18-10P	UN30-20P	UNT40-40P	UNT73-60P
Analog output	4-20mA	UN18-05I	UN18-10I	UN30-20I	UNT40-40I	UNT73-60I
	0-10VDC	UN18-05U	UN18-10U	UN30-20U	UNT40-40U	UNT73-60U
Sensing range	50-500mm	100-1000mm	200-2000mm	300-4000mm	400-6000mm	
Blin area	50mm	100mm	200mm	300mm	400mm	
Standard object	100×100mm					
Working voltage	DC24V±10% ripple (P-P) max. 10% , No load current consumption 50mA					
Power on delay	500ms					
Output	switch output	When the output current of NPN or PNP is 100mA, the voltage drop under conduction state is less than 1V at 10mA and less than 1.5V at 100mA				
	analog output	Voltage output: 0-10VDC (load impedance R ≥ 1K Ω). Current output: 4-20mA (load impedance R ≤ 500 Ω)				
Output status	The NO / NC switch output can be set by remote setting line					
Response time	50ms	125ms	150ms	325ms	650ms	
Setting mode	Setting (analog or switch): set the detection window range through remote setting line Increment or decrement output is determined by the set sequence Analog output slope: set the minimum output value (4mA or 0V) first					
Synchronization function	Synchronous use: multiple ultrasonic synchronous cables are connected together					
Detection accuracy	Analog resolution or switching value repetition accuracy: detection distance ± 0.5%. Analog linearity: ± 0.1% of full scale					
Analog resolution	Min. 0.13mm	Min. 0.35mm				
Indicator green LED red LED	Switch and analog output action indicator: NO mode: Green light on, red light off = output. Green light off, red light on = no output Nc mode: green light off, red light on = output. Green light on, red light off = no output Analog output mode: green light on, red light off = output. Green light off, red light on = no output Flashing green light = setting memory position and setting function memory Red light flashing = setting memory position failed and setting NC function memory Green light and red light flashing alternately = setting function memory failure					
Ambient temperature	Working : -20~+60°C Storage : -25~+70°C					
Ambient humidity	Working : 35~85%RH , Storag : 35~95%RH					
Connection	2m cable ; M12 connector , cultersonic : M12 connector					
IP level	IEC IP65					

Dimensions

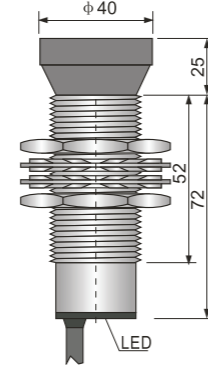
UN18-05N



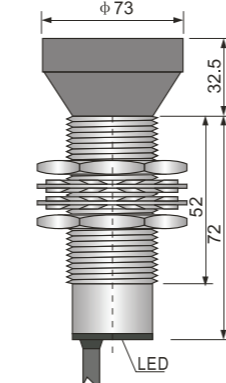
UN30-20N



UNT40-40N



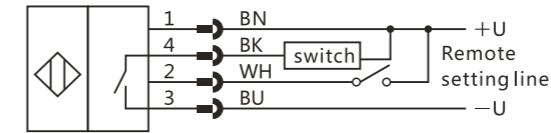
UNT73-60N



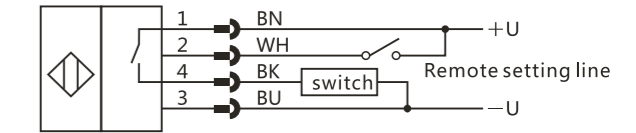
Ultrasonic UN series

Wiring diagram

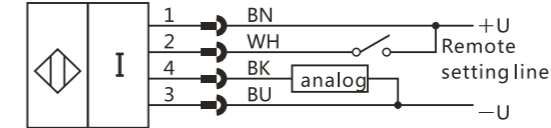
NPN output



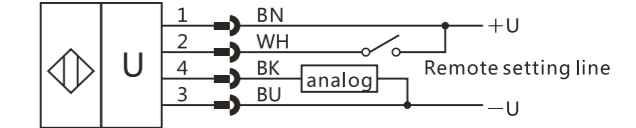
PNP output



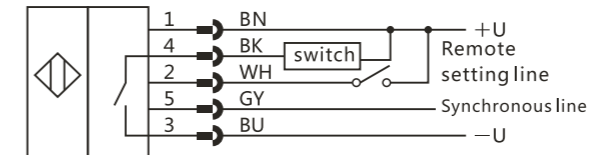
Analog 4-20mA output



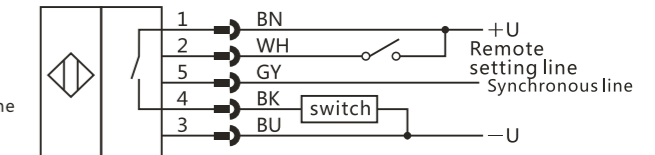
Analog 0-10VDC output



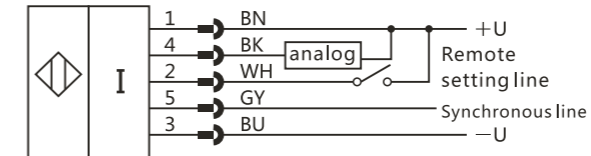
Synchronous function NPN output wiring diagram



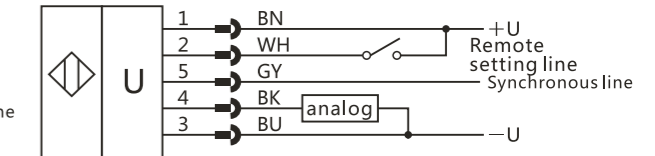
Synchronous function PNP output wiring diagram



Synchronous function analog 4-20mA output



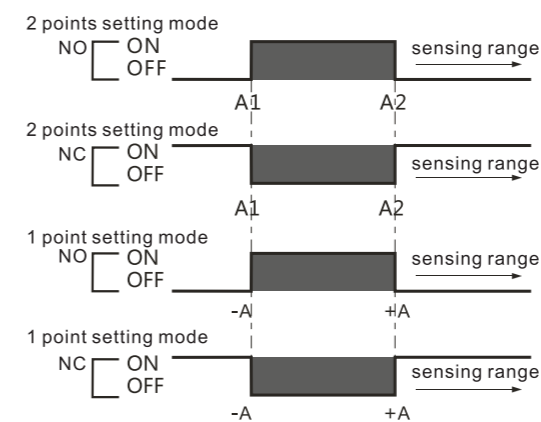
Synchronous function analog 0-10vdc output



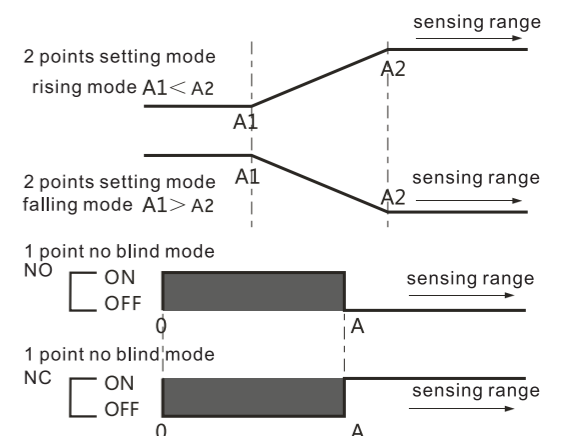
When the synchronization function is used, it is necessary to connect the synchronization lines of corresponding multiple ultrasonic sensors together

Output mode

NPN/PNP switch output



4-20mA/0-10VDC analog output



Remark: 1: QR18/QF18/QF25L, one point setting range is ±10mm, QR30/QF30 one point setting range is ±20mm, QR40T one point setting range is ±40mm, QR73T one point setting range is ±60mm.
2: Analog output one with 2 point setting.
3: Analog output slope: the first set position is the minimum output value (4mA or 0Vdc) and the second set position is the maximum output value (20mA or 10VDC) whether it is at the short distance point or the far point.