

ULTRASONIC SENSOR UH01 series



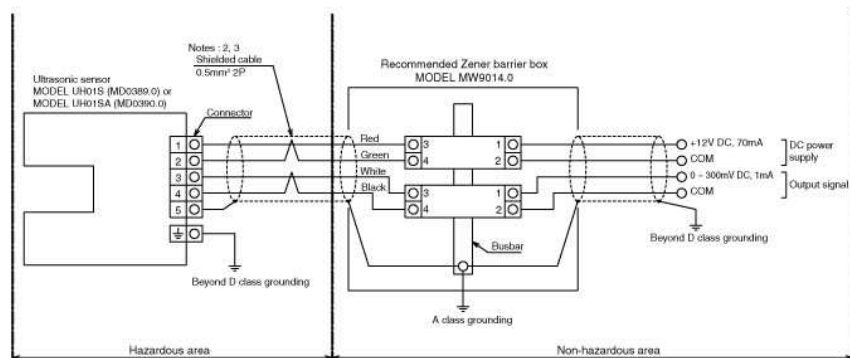
Overview

The Ultrasonic Sensor UH01 / UH01A is designed especially to detect transparent film and photosensitive material in EPC(Edge Position Control)system.

It can detect the edge of a web with high accuracy, not affected by irregularities in the coating near the edge of transparent film and printed patterns, which is conventionally impossible by optical sensors. Combined with Nireco,s controller, an electrical EPC system and electro-hydraulic EPC system can be constructed. The UH01A is a version of our UH01 ultrasonic sensor with a longer internal length(the distance from the sensor center position to the inner side of the casing). Internal lengths of 200mm, 300mm, 400mm and 500mm are available. The internal length of the UH01 is 60mm (fixed).

Explosion prevention system

Intrinsically Safe Anti-explosion Construction Systems



Notes :

1. This field wiring shows connection with a Nireco-recommended safety barrier.
If a different safety barrier is used, be sure to select a suitable barrier and wire it correctly to avoid compromising the conditions for intrinsic safety construction.
2. Read "Instruction manual QJ3758.*-E" before beginning wiring work or using the equipment.
3. Carry out wiring work in accordance with the National Electrical Code ANSI / NFPA 70 and the Local Electrical Codes.
4. FM intrinsic safety construction Class I, Division 1, Group D, T4, Class I, Zone 0, AEx ia IIa T4.

Specifications

	UH01	UH01A	UH01S	UH01SA
Sensor gap	48mm			
Effective detection length	8mm			
Frequency response	200Hz			
Sensor output	Hi mode When fully closed 0V, When fully opened +5V DC Lo mode When fully closed 0mV, When fully opened +300mV DC Resistance load of at least 2k Ω		When fully closed 0V, When fully opened +300mV DC	
Power supply	DC + 15V(100mA) DC - 15V(50mA)		DC +7 to +12V(70mA)	
Ambient humidity	35 to 85%RH (no condensation)			
Ambient temperature	0 to +50°C			
Mass	0.36kg			