

Iron and Steel Process series

Capacitance Autowide

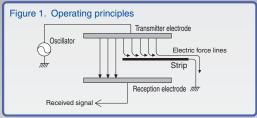


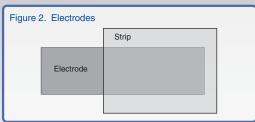
Features

- No field calibration required
- Maintenance free
- Uninfluenced by light
- Insensitive to dirt, scale
- Unaffected by passline changes or wavy edges

Iron and Steel Process series

Operating principles



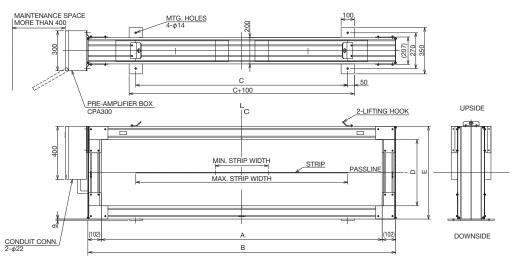


The Capacitance Autowide AWC Series generates lines of electric force between electrodes situated on each side of the strip, and calculates the position of the strip between the electrodes from the changing amount in the number of lines (see Figure 1). The sensor has two sets of transmission and reception electrodes that are installed opposite each other with the strip between them. The transmitter electrode generates electric force lines and the receiver receives them. When a strip enters between the transmitter and reception electrodes, the difference in the blocked transmitter electrodes causes a variation in the force lines received by the reception electrodes (see Figure 2). Therefore, by calculating the lines of electric force received by the reception electrodes, the position of the strip becomes apparent.

Specifications and External Demensions

Ambient temperature:	AWC***-*-P (With Pre-amp) (0°C to 50°C)			
	AWC***-*-N (Without Pre-amp) (0°C to 60°C)			
Power supply:	AC85V to AC264V, 50/60Hz			
Sensor accuracy:	Within ±5mm			

Frequency response:	5Hz
Output:	Strip diviation ±5V / ±200mm
	Alarm Healthy, Roll out, No strip
Weight:	63 to 79kg



Mdel No.	Strip Width		Demension(mm)					Approx	
ividei No.	Min Width *	Max Width *	А	В	С	D	Е	weight(kg)	
AWC640-3	400	1300	1820	2020	1300	300	500	63	
AWC640-4	400	1300	1820	2020	1300	400	600	65	
AWC640-5	400	1300	1820	2020	1300	500	700	66	
AWC790-3	400	1600	2120	2320	1600	300	500	67	
AWC790-4	400	1600	2120	2320	1600	400	600	69	
AWC790-5	400	1600	2120	2320	1600	500	700	70	
AWC940-3	400	1900	2420	2620	1900	300	500	72	
AWC940-4	400	1900	2420	2620	1900	400	600	73	
AWC940-5	400	1900	2420	2620	1900	500	700	75	
AWC1090-3	400	2200	2720	2920	2200	300	500	76	
AWC1090-4	400	2200	2720	2920	2200	400	600	77	
AWC1090-5	400	2200	2720	2920	2200	500	700	79	

^{*:} In case of zero for meandering quantity



●Hachioji Office

2951-4, Ishikawa-machi, Hachioji, Tokyo, 192-8552, Japan Telephone: +81-42-660-7353 Facsimile: +81-42-660-7354 Website: www.nireco.com E-mail: info-process@nireco.co.jp

QI0686.3-E

• Information in this catalog may change without notice. Please check with us when planning to use the equipment listed herein.