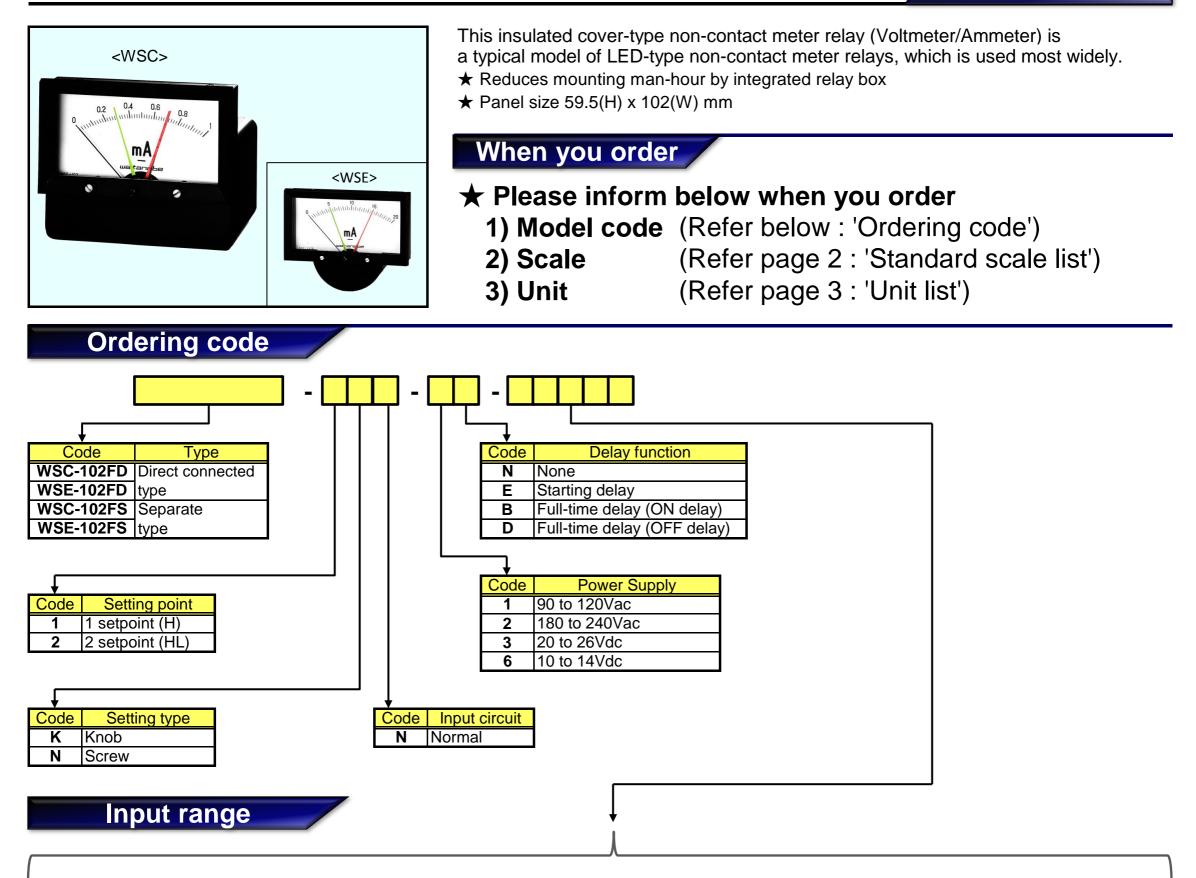
Insulated cover-type Non-contact Meter Relay WSC/WSE-102FD/FS



1) Input range for WSC-102FD/FS (Direct connected type)

*Refer page 2 for WSE-102FD/FS

Input Range	DC AC		; Inp		Input Range	DC		AC		
(Voltage)	Range code	Accessories	Range code	Accessories		(Current)	Range code	Accessories	Range code	Accessories
0 to 10mV	11VDA	None	-	-		0 to 10µA	11ADA	None	-	None
0 to 30mV	13VDA	None	-	-		0 to 50µA	15ADA	None	-	None
0 to 50mV	15VDN	None	-	-		0 to 100µA	21ADN	None	21CAN	None
0 to 60mV	16VDN	None	-	-		0 to 200µA	22ADN	None	22CAN	None
0 to 100mV	21VDN	None	-	-		0 to 500µA	25ADN	None	25CAN	None
0 to 200mV	22VDN	None	-	-		0 to 1mA	31ADN	None	31CAN	None
0 to 300mV	23VDN	None	-	-		0 to 3mA	33ADN	None	33CAN	None
$0 \neq 500 \text{m}$		None				O to Em A		None	25CAN	None

0 to 500mV	25VDN	None	-	-
0 to 1V	31VDN	None	-	-
0 to 3V	33VDN	None	-	-
0 to 5V	35VDN	None	-	-
0 to 10V	41VDN	None	41EAN	None
0 to 15V	4FVDN	None	4FEAN	None
0 to 20V	42VDN	None	42EAN	None
0 to 30V	43VDN	None	43EAN	None
0 to 50V	45VDN	None	45EAN	None
0 to 75V	4WVDN	None	4WEAN	None
0 to 100V	51VDN	None	51EAN	None
0 to 150V	5FVDN	None	5FEAN	None
0 to 200V	52VDN	None	52EAN	None
0 to 300V	53VDN	None	53EAN	None
0 to 500V	55VDN	None	55EAN	None
0 to 750V	5WVM2	M-2 (Multiplier)	5WEB2	M-2 (Multiplier)
1 to 5V (1MΩ)	2222A	None	-	-
1 to 5V	2222N	None	-	-
Other than above				
10mV to less than 50mV	99VDA	None	-	-
50mV to less than 100mV			-	-
100mV to less than 10V	99VDN	None	-	-
10V to less than 500V			99EAN	None
500V to less than 750mV	99VM2	M-2 (Multiplier)	99EB2	M-2 (Multiplier)

0 to 5mA	35ADN	None	35CAN	None
0 to 10mA	41ADN	None	41CAN	None
0 to 20mA	42ADN	None	42CAN	None
0 to 30mA	43ADN	None	43CAN	None
0 to 50mA	45ADN	None	45CTN	None (CT built-in)
0 to 100mA	51ADN	None	51CTN	None (CT built-in)
0 to 300mA	53ADN	None	53CTN	None (CT built-in)
0 to 500mA	55ADN	None	55CTN	None (CT built-in)
0 to 1A	61ADN	None	61CTN	None (CT built-in)
0 to 2A	62ADN	None	62CTN	None (CT built-in)
0 to 3A	63ADN	None	63CTN	None (CT built-in)
0 to 5A	65ADN	None	65CTN	None (CT built-in)
0 to 10A	71AS2	WS-2 (Shunt)	71CT2	WCT-2CR (CT)
0 to 15A	7FAS2	WS-2 (Shunt)	7FCT2	WCT-2CR (CT)
0 to 20A	72AS2	WS-2 (Shunt)	72CT2	WCT-2CR (CT)
0 to 30A	73AS2	WS-2 (Shunt)	73CT2	WCT-2CR (CT)
0 to 50A	75AS2	WS-2 (Shunt)	75CT2	WCT-2CR (CT)
0 to 75A	7WAS2	WS-2 (Shunt)	7WCT2	WCT-2CR (CT)
0 to 100A	81AS2	WS-2 (Shunt)	81CT2	WCT-2CR (CT)
0 to 150A	8FAS2	WS-2 (Shunt)	8FCT2	WCT-2CR (CT)
0 to 200A	82AS2	WS-2 (Shunt)	82CT2	WCT-2CR (CT)
0 to 250A	-	-	8RCT2	WCT-2CR (CT)
0 to 300A	83AS3	WS-300 (Shunt)		WCT-2CR (CT)
0 to 400A	-		84CT5	WCT-2CR (CT)
0 to 500A	85AS5	WS-500 (Shunt)		WCT-2CR (CT)
0 to 600A	-	-	86CT5	WCT-2CR (CT)
0 to 750A	-	-	8WCT5	WCT-2CR (CT)
4 to 20mA	1111N	None	-	-
Other than above				
	99ADA	None	-	-
100µA to less than 50mA	99ADN	None	99CAN	None
50mA to less than 5A			99CTN	None
5A to less than 150A	99AS2	WS-2 (Shunt)	99CT2	WCT-2CR (CT)

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2) Input range for WSE-102FD/FS (Separate type)

*Refer page 1 for WSC-102FD/FS

Input Range	D	DC AC		C	Input Range	DC		AC	
(Voltage)	Range code	Accessories	Range code	Accessories	(Current)	Range code	Accessories	Range code	Accessories
to 50mV	15VDN	None	-	-	0 to 100µA	21ADN	None	21CAN	None
) to 60mV	16VDN	None	-	-	0 to 200µA	22ADN	None	22CAN	None
) to 100mV	21VDN	None	-	-	0 to 500µA	25ADN	None	25CAN	None
) to 200mV	22VDN	None	-	-	0 to 1mA	31ADN	None	31CAN	None
) to 300mV	23VDN	None	-	-	0 to 3mA	33ADN	None	33CAN	None
) to 500mV	25VDN	None	-	-	0 to 5mA	35ADN	None	35CAN	None
) to 1V	31VDN	None	-	-	0 to 10mA	41ADN	None	41CAN	None
) to 3V	33VDN	None	-	-	0 to 20mA	42ADN	None	42CAN	None
) to 5V	35VDN	None	-	-	0 to 30mA	43ADN	None	43CAN	None
) to 10V	41VDN	None	41EAN	None	0 to 50mA	45ADN	None	45CT6	WCT-6A (CT)
) to 15V	4FVDN	None	4FEAN	None	0 to 100mA		None	51CT6	WCT-6A (CT)
) to 20V	42VDN	None	42EAN	None	0 to 300mA	53ADN	None	53CT6	WCT-6A (CT)
) to 30V	43VDN	None	43EAN	None	0 to 500mA	55ADN	None	55CT6	WCT-6A (CT)
) to 50V	45VDN	None	45EAN	None	0 to 1A	61ADN	None	61CT6	WCT-6A (CT)
to 75V	4WVDN	None	4WEAN	None	0 to 2A	62ADN	None	62CT6	WCT-6A (CT)
to 100V	51VDN	None	51EAN	None	0 to 3A	63AS2	WS-2 (Shunt)	63CT6	WCT-6A (CT)
to 150V	5FVDN	None	5FEAN	None	0 to 5A	65AS2	WS-2 (Shunt)	65CT6	WCT-6A (CT)
) to 200V	52VDN	None	52EAN	None	0 to 10A	71AS2	WS-2 (Shunt)	71CT1	WCT-1 (CT)
) to 300V	53VDN	None		None	0 to 15A	7FAS2	WS-2 (Shunt)		WCT-1 (CT)
) to 500V	55VDN			None	0 to 20A	72AS2	WS-2 (Shunt)		WCT-1 (CT)
) to 750V	5WVM2		5WEB2	M-2 (Multiplier)	0 to 30A	73AS2	WS-2 (Shunt)		WCT-1 (CT)
to 5V (1MΩ)	2222A	None	-	-	0 to 50A	75AS2	WS-2 (Shunt)		WCT-1 (CT)
to 5V	2222N	None	-	-	0 to 75A	7WAS2		7WCT1	WCT-1 (CT)
30 to 120V	812DN	None	-	-	0 to 100A	81AS2	WS-2 (Shunt)		WCT-1 (CT)
Other than above	1				0 to 150A	8FAS2	WS-2 (Shunt)		WCT-1 (CT)
0mV to less than 100mV			-	-	0 to 200A	82AS2	WS-2 (Shunt)		WCT-2MR &
	99VDN	None	-	-	0 to 250A	-	-	8RCT8	WCT-6A (CT)
0V to less than 300V				None	0 to 300A	83AS3	WS-300 (Shunt)		WCT-5MRN
00V to less than 750mV	99VM2	M-2 (Multiplier)	99EB2	M-2 (Multiplier)	0 to 400A	-		84CT9	&
					0 to 500A	85AS5	WS-500 (Shunt)	85CT9	WCT-6A

0 to 3A	63AS2	WS-2 (Shunt)	63CT6	WCT-6A (CT)				
0 to 5A	65AS2	WS-2 (Shunt)	65CT6	WCT-6A (CT)				
0 to 10A	71AS2	WS-2 (Shunt)	71CT1	WCT-1 (CT)				
0 to 15A	7FAS2	WS-2 (Shunt)	7FCT1	WCT-1 (CT)				
0 to 20A	72AS2	WS-2 (Shunt)	72CT1	WCT-1 (CT)				
0 to 30A	73AS2	WS-2 (Shunt)	73CT1	WCT-1 (CT)				
0 to 50A	75AS2	WS-2 (Shunt)	75CT1	WCT-1 (CT)				
0 to 75A	7WAS2	WS-2 (Shunt)	7WCT1	WCT-1 (CT)				
0 to 100A	81AS2	WS-2 (Shunt)	81CT1	WCT-1 (CT)				
0 to 150A	8FAS2	WS-2 (Shunt)	8FCT1	WCT-1 (CT)				
0 to 200A	82AS2	WS-2 (Shunt)	82CT8	WCT-2MR &				
0 to 250A	-	-	8RCT8	WCT-6A (CT)				
0 to 300A	83AS3	WS-300 (Shunt)	83CT9	WCT-5MRN				
0 to 400A	-		84CT9	&				
0 to 500A	85AS5	WS-500 (Shunt)	85CT9	WCT-6A				
0 to 600A	-	-	86CT9					
0 to 750A	-	-	8WCT9	(CT)				
4 to 20mA	1111N	None	-	-				
Other than above								
100µA to less than 30mA	99ADA	None	99CAN	None				
50mA to less than 3A			99CT6	WCT-6A (CT)				
3A to less than 5A	99AS2	WS-2 (Shunt)		· · · · ·				
5A to less than 150A	JJAUL		99CT1	WCT-1 (CT)				

Specifications

Input signal	DC voltage / DC current / AC voltage / AC current
Input rating	10mV to 750Vdc
	10µA to 500Adc
Output	Relay contact output (1 point or 2 point)
Setting range	0 to 100% of scale
Accuracy	±2.5%
Dead band	±1%
Contact capacity	Maximum : 125Vac 1A, Minimum : 10mVdc 10µA
Relay operating time	At startup : 0.5 seconds
	Normal operation : 0.1 seconds
Operating temperature range	-10 to +60°C
Effects of ambient temperature	±0.01% FS per °C
Insulation resistance	100MΩ or more with 1000Vdc megger
Dielectric strength	2000Vac for 1 minute
Weight	Approx. 420 to 480g
Power supply voltage	100Vac / 110Vac / 200Vac / 220Vac / 24Vdc / 12Vdc
Power consumption	Approx. 2VA (100Vac), Approx. 2.5VA (200Vac), Approx. 1VA (12Vdc), Approx. 2VA (24Vdc)
Panel size	59.5 (H) x 102(W)mm

Standard scale list

Max Scale Value	Scale (Zero left or bottom)
1, 10, 100, 1000	0 2 4 6 8 10
1.5, 15, 150, 1500	0 5 10 15
2, 20, 200	0 5 10 15 20
3, 30, 300	0 10 20 30
4, 40, 400	0 10 20 30 40
5, 50, 500	0 10 20 30 40 50
7.5, 75, 750	0 20 40 60 75

Notes : Contact us for special scale other than the above.

1) Color scale / letter / digit / band

2) Double / Triple extended scale etc.

Max Scale Value	Scale (Zero center)
±1, ±10, ±100, ±1000	_ 1 0.5 0 0.5 1 _ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
±1.5, ±15, ±150, ±1500	$- \begin{array}{cccccccccccccccccccccccccccccccccccc$
±2, ±20, ±200	$ - \frac{10}{10} + \frac$
±3, ±30, ±300	$- \frac{3}{4} $
±4, ±40, ±400	$- \frac{40 20 0 20 40}{ $
±5, ±50, ±500	- ⁵⁰ 40 20 0 20 40 50 - +
±7.5, ±75, ±750	$- \begin{array}{cccccccccccccccccccccccccccccccccccc$

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U	nit list			
mA	сс	kΩ	mm	t/h
<u>mA</u>	cm/min	l	mm³	μA
mA	срт	ℓ/h	mm/min	μm
А	deg	ℓ/min	mm/s	μs
A	g	ℓ/s	mN	VA
A A	Hz	lx	m/h	W
mV	kA	MPa	m/s	W
mV	kg	MW	Ν	W
	kg/cm ²	MΩ	Pa	W Ω
mV V	kHz	m	pН	%
$\frac{V}{V}$	kl	m²	ppm	°C
V.	km	m³	rpm	°F
kV	km/h	mg	S	
kV	kPa	mg/l	t	
kV	kW	ml	ton	
	Contact us for other	than the above		

Notes : Contact us for other than the above.

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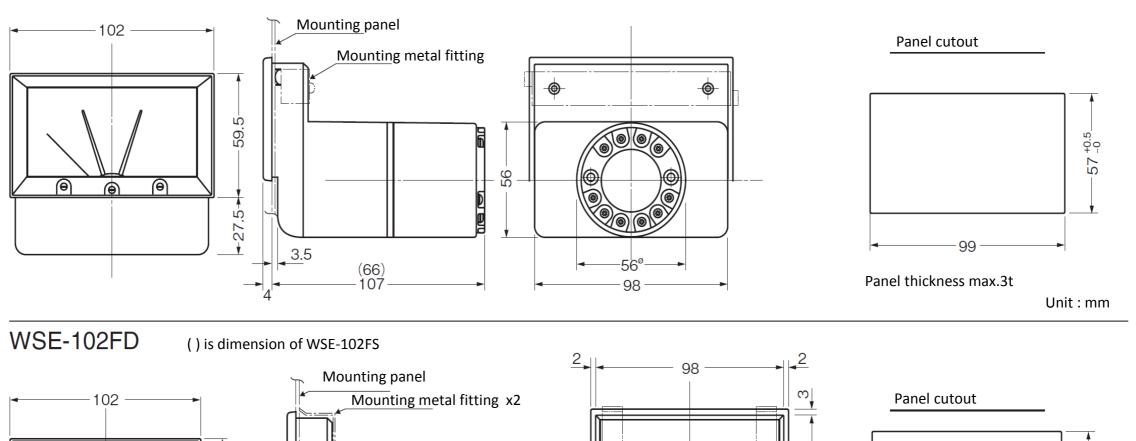
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Dimensions

WSC-102FD

() is dimension of WSC-102FS





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* Specification is subject to change without notice

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