Autonics PANEL METER MT4N SERIES



Thank you very much for selecting Autonics products For your safety, please read the following before using.

Caution for your safety

XPlease keep these instructions and review them before using this unit

★ Please observe the cautions that follow;
 ★ Warning Serious injury may result if instructions are not followed.
 ★ Caution Product may be damaged, or injury may result if instructions are not followed.

*The following is an explanation of the symbols used in the operation manual ⚠Caution: Injury or danger may occur under special conditions.

⚠ Warning

1. In case of using this unit with machinery (Ex: nuclear power control, medical equipment, ship, vehicle, train, airplane, combustion apparatus, safety device, crime/disaster prevention equipment, etc) which may cause damages to human life or property, it is required to install fail-safe device.

It may cause a fire, human injury or damage to property.

2. It must be mounted on the panel.

It may cause alertific elevent.

- It may cause electric shock.

 3.Do not connect, inspect or repair terminals when it is power on.
 It may cause electric shock.

 4.Do not disassemble or modlify this unit. Please contact us if it is required.
 It may cause a fire or electric shock.
- 5.Please check the number of terminal when connecting power or measured input.

⚠ Caution

- A Caution

 1.This unit shall not be used outdoors.
 It might shorten the life cycle of the product or cause electric shock.
 Use this product indoors only. Do not use the product outdoors or at locations subject to the temperatures or humidity outside. (Example: rain, dirty, frost, sunlight, condensation, etc.)

 2. When connecting wire, AWG20(0.50mm) should be used and tighten screw bolt on terminal block with 0.74N-m to 0.90N-m strength.
 It may cause a malfunction or a fire due to contact failure.

 3. Please observe the rated specification.
 It might shorten the life cycle of the product and cause a fire.

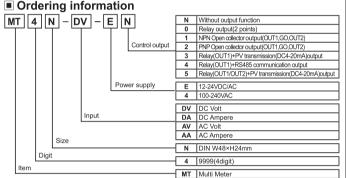
 4. Do not use beyond of the rated switching capacity of relay contact.
 It may cause insulation failure, contact melt, contact failure, relay broken and fire etc.

 5. In cleaning the unit, do not use water or an organic solvent. And use dry cloth.
 It may cause a fire and give an electric shock.

 6. Do not use this unit in place where flammable or explosive gas, humidity, direct ray of the light, radiant heat, vibration or impact, etc. exists.
 It may cause a fire or explosion.

 7. Do not inflow dust or wire dregs into the unit.
 It may cause a fire or exchanical malfunction.

 8. Please wire properly after checking the polarity of measurement terminals.
 It may cause a fire or explosion.



■ Front panel identification



MT4N-DV-

1 OUT1 : Preset output of OUT1 2 GO: Preset Go output of OUT1/OUT2
9 3 OUT2: Preset output of OUT2 4 MODE: MODE key

5 ②: Shift key

8 mV, V unit

6 ②: Down key

9 mA, A unit

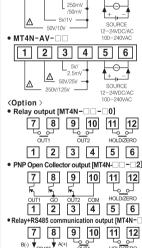
7 ②: Up key

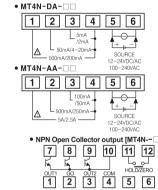
10 Hz unit

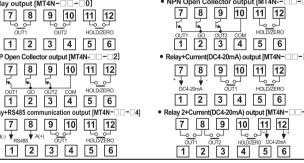
Panel cut-out (Unit: mm) Min. 55 45-0

Terminal connection

1 2 3 4 5 6

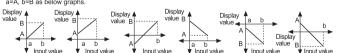






■ Prescale function [PA1: H-50/L-50]

This function is to display setting(-1999 to 9999) of particular High/Low-limit value in order to display High/Lowlimit value of measured input. If meas a=A, b=B as below graphs.



■ Error display function

Error display function			■ Initialization function
Display	Description		This function is to initialize parameter as factory
нннн	Flashes when measured input is exceeded the max.allowable input(110%)		default.
LLLL	Flashes when measured input is exceeded the min.allowable input(-10%)		RUN Press €+ + for over 5 sec.
9-HH	Flashes when display input is exceeded H-5C setting value		
d-LL	Flashes when display input is exceeded L-SC setting value	П	MODE MODE
F-HH	Flashes when input frequency is exceeded the max. display value of measured range		MT4N-DV 7 50 W Flash twice
ouEr	Flashes when it exceeds zero range(±99)	П	MT4N-AV 550 in order
	djusting error is returning to measurement mode after] flashes twice.		MT4N-DA 500 returns to

■ Display cycle delay function [PA 2: df 5.₺]

In some applications the measured input may fluctuate which in turn causes the display to fluctuate. By adjusting the display cycle delay function time at _d/ 5_k_ of parameter 2, the operator can adjust the display time within a range of 0.1 sec to 5 sec. For example, if the operator sets the display cycle time to 4.0 sec., the display value displayed will be the average input value over 4 sec. and also will show any changes if any every 4 sec.

■ Startup compensation timer function [PA2:5₺8₺]

This time function limits the operation of an output until the measured input(overvoltage or inrush current) is stable at moment of power on. All outputs are off during startup compensation time setting after power is applied. Setting range: 00.0 to 99.9 (Unit: sec.) Factory default: 00.0

■ User manual for communication

 $\ensuremath{\mathbb{X}}$ The above specifications are subject to change and some models may be discontinued without notice

Specifications

range 9	23°C ± 5°C - DC Type DC/AC 10°C to 50°C - DC/AC 110% F.S. for each me Practical oversampling 50ms(DC), 16.6ms(AC 1999 to 9999(4digit) Relay output - Contact NPN/PNP Open Collect	ay, Character height: : F.S.±0.1% rdg±2digit Type: Within F.S.±0.5 Type: F.S.±0.5% rdg easured input range g using successive ap	t / AC Type: F.S.±0.3% 3% rdg±3digit only for ±3digit	AC voltage, ampere, Frequency rdg±3digit current 5A terminal			
range S	30 to 110% OC: 3W, AC: 5VA OC: 3W, AC: 5VA OC: 3W, AC: 5VA OC: MITAIN III E5 - DC 7 Segment LCD Displ 23°C ± 5°C - DC Type DC/AC 10°C to 50°C - DC/AC 110% F.S. for each mr Practical oversampling 50ms(DC), 16.6ms(AC 1999 to 9999(4digit) Relay output - Contact	ay, Character height: : F.S.±0.1% rdg±2digit Type: Within F.S.±0.5 Type: F.S.±0.5% rdg easured input range g using successive ap	90 to 110% 5VA 9mm t /AC Type: F.S.±0.3% % rdg±3digit only for t ±3digit	rdg±3digit Current 5A terminal			
ut thod s	DC: 3W, AC: 5VA or MT4N-III-E5 - DC 7 Segment LCD Displ 23°C ± 5°C - DC Type DC/AC 10°C to 50°C - DC/AT 110% F.S. for each m Practical oversamplin 50ms(DC), 16.6ms(AC 11999 to 9999(4digit) Relay output - Contact	ay, Character height: : F.S.±0.1% rdg±2digit Type: Within F.S.±0.5 Type: F.S.±0.5% rdg easured input range g using successive ap	5VA 9mm t /AC Type: F.S.±0.3% % rdg±3digit only for u ±3digit	, rdg±3digit Current 5A terminal			
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thod f	Practical oversampling 50ms(DC), 16.6ms(AC 1999 to 9999(4digit) Relay output - Contact NPN/PNP Open Collect	g using successive ap C)	proximation ADC				
	50ms(DC), 16.6ms(A0 1999 to 9999(4digit) Relay output - Contact NPN/PNP Open Collect	0)	proximation ADC				
· -	1999 to 9999(4digit) Relay output - Contact NPN/PNP Open Collect	,					
:	Relay output - Contact NPN/PNP Open Collect						
 	NPN/PNP Open Collec			-1999 to 9999(4digit)			
		Relay output - Contact capacity: 125VAC 0.3A, 30VDC 1A/Contact composition: N.O(1a) NPN/PNP Open Collector output - 12-24VDC ±2V 50mA Max.(Load resistance)					
~~' [·	RS485 communication output Baud rate: 1200/2400/4800/9600, Communication method: 2-wire half duplex, Synchronous method: Sub-synchronization, Protocol: Modbus type DC4-20mA output - Resolution: 12,000 division(Load resistance max. 600Ω)						
ction ^{×1}	Selectable RMS or AVG						
ent	Measurement range: 0.100 to 9999Hz(Differ according to decimal point position)						
1	Includes(Outer hold function)						
e I	Min. 20MΩ(at 500VDC megger)						
	1000VAC for 1 minute (Between external terminal and case) 2000VAC for 1 minute (Between external terminal and						
- :	±2kV the square wave noise(pulse width: 1μs) by the noise simulator						
ical (0.75mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z direction for 2 hours						
tion (0.5mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z direction for 10 minutes						
ical '	100m/s²(Approx. 10G) in X, Y, Z directions for 3 times						
tion (300m/s²(Approx. 30G) in X, Y, Z directions for 3 times						
t iture -	-10 to 50°C, Storage: -20 to 60°C						
,	35 to 85%RH, Storage: 35 to 85%RH						
[Double insulation or reinforced insulation(Mark: □, Dielectric strength between the measuring input part and the power part : 1kV)						
	€		_				
[(Approx. 125g(Approx. 64g)						
ic ti	cal (con (con con con con con con con con con con	1000VAC for 1 minute (Between external ter ±2kV the square wave all 0.75mm amplitude at freq on 0.5mm amplitude at freq all 100m/s' (Approx. 106 on 300m/s' (Approx. 30G ure 10 to 50°C, Storage: 35 to 85%RH, Storage Double insulation or r measuring input part at C €	000VAC for 1 minute (Between external terminal and case) ±2kV the square wave noise(pulse width: 1) all 0.75mm amplitude at frequency of 10 to 55Hz(for 0.5mm amplitude at frequency of 10 to 55Hz(for 10.5mm amplitude at frequency of 10 to 55Hz(for 10.5mm amplitude at frequency of 10 to 55Hz(for 10.5mm amplitude) at frequency of 10 to 55Hz(for 10.5mm amplitude) at frequency of 10 to 50°C, 300m/s² (Approx. 30G) in X, Y, Z directions the state of 10 to 50°C, Storage: -20 to 60°C 35 to 85%RH, Storage: 35 to 85%RH Double insulation or reinforced insulation(Manasuring input part and the power part: 1 €€	1000VAC for 1 minute (Between external terminal and case) 2000VAC for 1 minute (Between external terminal and case) (Between external terminal and case) (Between external terminal and case) (Between external terminal strength (Between external terminal strength (Between external terminal strength (Between external terminal strength) the strength (Between external terminal ter			

- X1: AC measuring function, and frequency measuring function are only for AC measuring input type
 X2: The indicator has no Hold function.
 X3: The weight with packaging and the weight in parentheses is only unit weight.
 X5: Environment resistance is rated at no freezing or condensation.

 X6: Environment resistance is rated at no freezing or condensation.

 X6: Environment resistance is rated at no freezing or condensation.

 X6: Environment resistance is rated at no freezing or condensation.

 X7: Environment resistance is rated at no freezing or condensation.

 X8: Environment resistance is rated at no freezing or condensation.

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Specification of measured input and range [PA1: forc]

Type	Measured inp	ut and range	Input impedance	Display range [51-6]	Prescale L	Display range [51 HL]	
	0-50V	[50V]	434.35kΩ	0.00 to 50.00(Fixed)			
DC Volt	0-10V	[10V]	434.35kΩ	0.00 to 10.00(Fixed)	l		
	0-5V	[5 V]	43.35kΩ	0.000 to 5.000(Fixed)	dot	Display range	
	0-1V	[/V]	43.35kΩ	0.000 to 1.000(Fixed)	0	-1999 to 9999	
	0-250mV	[250mV]	2.15kΩ	0.0 to 250.0(Fixed)	0.0	-199.9 to 999.9	
	0-50mV	[50mV]	2.15kΩ	0.00 to 50.00(Fixed)	0.00		
DC Ampere	0-500mA	[500mA]	0.1Ω	0.0 to 500.0(Fixed)		-19.99 to 99.99	
	0-200mA	[200mA]	0.1Ω	0.0 to 200.0(Fixed)	0.000	-1.999 to 9.999	
	0-50mA	[58mA]	1.1Ω	0.00 to 50.00(Fixed)	(Display range is variable		
	4-20mA	[4-20mA]	1.1Ω	4.00 to 20.00(Fixed)	according to decimal point position.)		
	0-5mA	[5mA]	11.1Ω	0.000 to 5.000(Fixed)			
	0-2mA	[2mA]	11.1Ω	0.000 to 2.000(Fixed)			
	0-250V	[250V]	1.109ΜΩ	0.0 to 250.0(Fixed)	Please wire the proper terminal to its max. input within 30 to 100% of the input terminal. When it is higher than input, it may cause terminal		
	0-125V	[125V]	1.109ΜΩ	0.0 to 125.0(Fixed)			
	0-50V	[50V]	222ΜΩ	0.00 to 50.00(Fixed)			
	0-25V	[25V]	222ΜΩ	0.00 to 25.00(Fixed)			
	0-5V	[5V]	22ΜΩ	0.000 to 5.000(Fixed)			
	0-2.5V	[2.5V]	22ΜΩ	0.000 to 2.500(Fixed)		own and over display	
	0-5A	[5A]	0.01Ω	0.000 to 5.000(Fixed)		The accuracy	
	0-2.5A	[2.5A]	0.01Ω	0.000 to 2.500(Fixed)	is decreased when it is connected to the terminal under 30%.		
	0-500mA	[500mA]	0.1Ω	0.0 to 500.0(Fixed)			
Ampere	0-250mA	[250mA]	0.1Ω	0.0 to 250.0(Fixed)			
	0-100mA	[188mA]	0.5Ω	0.0 to 100.0(Fixed)			
	0-50mA	[50mA]	0.5Ω	0.00 to 50.00(Fixed)			

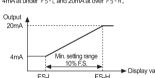
Monitoring max./min. display value function [PA 0: H.P.E.L.I.L.P.E.L., PA 2: P.E.L.L.]

It monitors max/min. value of display value based on the current displays value and then displays the data at HPEŁ, LPEŁ of parameter 0. Set the delay time(0 to 30 sec.) at PEŁŁ of parameter 2 in order to prevent malfunction caused by initial overcurrent or overvoltage, when monitoring the peak value. Delay time is 0 to 30 sec. and it starts to monitor the peak value after the set time. When pressing any one of \$\mathbb{E}\$ \mathbb{E}\$ \mathbb{E}\$ set 1 \mathbb{E}\$ \mathbb{E}\$ \mathbb{E}\$ \mathbb{E}\$ of parameter 0, the monitored data is initialized. %Monitoring function is not indicate when the delay time is set as "0.0 5" at PEŁŁ of parameter 2.

Current output(DC4-20mA) Scale adjustment function

[PA 2:F5-H/F5-L]

[PA 2:F5-H/F5-L] It sets current output for the display value at the output current DC 4-20mA. It sets display value for 4mA at F5-L and 20mA at F5-H and the range between F5-H and F5-L should be 10% FS. (When it sets as under 10% F.S., at thanged as over 10% FS. automatically)Preset display value is fixed to output as 4mA at under F5-L and 20mA at over F5-H.



AC frequency measurement function [PA 1: dl 5P]

It measures input signal frequency when it is AC input. It uses fixed decimal point[PA1: dot], measured range can be changed by setting and measured range of decimal point position is as below chart. It is available to adjust the upper gradient at [PA1: hb.l] and [PA1: hb.l]. In order to measure frequency normally, input signal, over 10% F.S. of the measured range, should be supplied. Please select the proper point of measurement terminal. ①Measured range

	Decim
	Measu
	× Ac
isplav value	

mal point osition 0.000 0.00 0.0 surement 0.100 to 0.10 to 9.999Hz 0.10 to 999.9Hz 0.10 to 999.9Hz

ccuracy of frequency measurement : Below 1kHz, F.S. ±0.1rdg ±2digit. From 1kHz to 10kHz, F.S. ±0.3rdg ±2digit. ьн: 0.100 to 9.999(Gradient adjustment of high value 3 i nb.E: 10⁻², 10⁻¹, 10⁰, 10¹ (Index adjustment of i nb.H)

Error correction function

[PA 1: I nb.H/I nb.L] It corrects display value error of measured input.

It corrects display value error or inestaured inplut.

1-b.1::490 (Adjust deviation of low value)

1-b.1:5.000 to 0.100(Correct gradient(%) of high value)

Display value: (Measured value × 1-b.1) + 1-b.1.

When the measured range is 0 to 500V, and the display range is 0 to 500. If the low display value is "1.2" to 0 vinput, set

-12 as the 1-b.1 value to display "0.0" by adjusting the offset of the low value.

The display value to the 500V measured input varies by adjusting the offset of the low value. If this display value is "50 1.0", calculate 500.0/501.0 (the desired display value/ the display value), and set the 0.998 correction value as the I nb.H to display "500.0" by adjusting the gradient of the high value.

 $\ensuremath{\mathbb{X}}$ The offset correction range of I ob.L is within -99 to +99

Zero adjustment function

It adjusts the display value of the optional configured input value as zero by force, zero point error can be adjusted with 3

When zero point adjustment with front key and Hold terminal is finished normally, zero point of measurement terminal is displayed and the adjusted value at saved in I ab L automatically.

Oper- ation	Input correction value	Front key	Input external signal		
Des- cription	PR 1: Direct input correction value method at I nb L	Press both	Short-circuit external Hold terminal no.11, 12 over min.50m. ※It is enable to use in option mode.		
X Pefer to description " From correction function From					

0.000 4.000

0.000 5.000

■ Gradient correction function [PA1: I nb.H]

It corrects the gradient of prescale value and display value. (Figure 1)Display value Y can be adjusted as α , β times against X input value by correction

function [INB.H.] and used as correction function of max. display value [H-5C]. Adjustment range is 0.100 to 5.000 and multiply current gradient.

Ex) To display "3.000" in DC 200mV input for measured input specification as 0 to 1V,

Select 0-1VDC for measured input in Parameter 1.

Standard specification in input: 0-1VDC and 1.000 therefore it has to be 15.000(H-SC) for 1VDC(input) in order to display 3.000 for 200mVDC(input).

But it is unable due to setting range is 9.999.

③In this case, please check below chart. Please set as I nb H×H-5E = 15.000 case, please crieck percent of the state of gradient correction)

Setting method H-5€ L-SE Inb.H Note 15.000 12.000 0.000 1.000 Unavailable ② 7.500 0.000 2.000 Display value for measured input In this case, any setting methods display the sam display value. 6.000 ③ 5.000 0.000 3.000

④ 3.750

■ Preset output mode [PA2:aU I.E /aU2.E]

▼ 02 0.4 0.6 0.8 1V Input value ⑤ 3.000

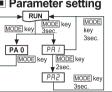
Mode	Output operation	Operation	
off	OUT1 output No output	No output	
н	OUT1.H Hysterisis	Period ON: Display value≥OUT1.H Period OFF: Display value≤OUT1.H-Hys	
Lo	OUT1.L OUT1 output	Period ON: Display value≤OUT1.L Period OFF: Display value≥OUT1.L+HYS	
HL	OUT1.H OUT1.L OUT1 output	Period ON: Display value≤OUT1.L or Display value≥OUT1.H Period OFF: Display value≥OUT.L+Hys or Display value≤OUT.H-Hys	
HL - 0	OUT1.H OUT1.L OUT1 output	Period ON: OUT1.L≤Display value≤OUT1.H+Hys Period OFF: Display value≤OUT.L-Hys or Display value≥OUT.H+Hys	
× Set c	Set output mode separately for each OLIT1/OLIT2		

X OUT1/OUT2 are operated individually depending on output operation mode

※ Setting value mode of parameter group 0 is displayed depending on output operation mode.
※ GO outputs when the period both OUT1/OUT2 are off.(NPN/PNP Open collector output type)



Parameter setting



※Press MODE key in RUN mode and it enters PA-0 group.

※Press MODE key for over 3 sec. in RUN mode, it displays [PA 1].

※Press MODE key for over 5 sec. in RUN mode, it displays [PA 2] after [PA 1].

When pressin [MODE] key continually, it stops displaying at [PA 2].

※It is advanced to current display parameter releasing [MODE] key at [PA 1] or [PA 2].

※Press [MODE] key for over 3 sec. in any parameter; or the time to RUN mode.

※If any key is not entered for 60 sec. in each parameter, it returns to RUN mode.

After returning to RUN mode, press [MODE] key within 2 sec., it returns to previous parameter. (Refer to the below descriptions of each parameter group.)

※PA-0 group cannot be entered when preset output mode of [PA 2] group is OFF.

Parameter 0

MODE

RUN

Change the parameter setting value

1.Advance to the parameter to be changed when pressing MODE key continuously in RUN mode and releasing MODE key at the parameter.(Refer to **I

Parameter setting")

2.When pressing MODE key in each parameter, the initial mode of the parameter is displayed.(Refer to the description of each parameter.)

3.When pressing one of 【 风 keys in display mode,

the saved setting value is displayed. Setting Ex) Mode value The saved setting value flashes every 0.5 sec. 4. Change the setting value by ⊠ or ⊠ key when setting value flashes.

Ex) Change AC type measured input from 250V to 125V.

Output

Description:

Mode Setting value Value Value Press one di SP

. When confirming the setting value with MODE key, the changed setting value flashes twice and enters into the next setting.

Parameter 1

RUN

It displays Max. monitoring value (High peak) in RUN mode. Lis initialized by pressing any one of keys.

Set preset Low-limit value of o' I' I.L. (It is not displayed when o' I' I.L. mode value of PA2 is of F.). **Change the value by 🔘 🗷 keys.

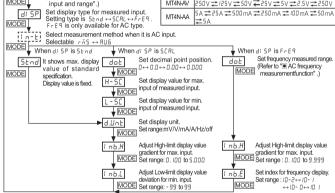
Set preset High-limit value of \$\omega \emptys\$ \rightarrow \righ

6. It returns RUN mode from parameter by pressing MODE

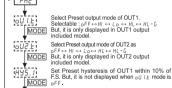
Measured input specification for each model> Measured input range

※ If PELL monitoring delay time of Parameter2 is set as 100.51, H.PEL and L.PEL are not displayed.

MODE key 3sec. MT4N-DV 50V ±10V ±5V ±1V ±250 mV ±50 mV ±50 v MT4N-DA 500 mA ±200 mA ≠50 mA ≠4-20 mA ±5 mA± 2mA ±500 mA MT4N-AV | 250V \$\preceq\$ 125V \$\precep\$ 50V \$\precep\$ 25V \$\precep\$ 25.5V \$\precep\$ 250V input and range".)



Parameter 2 RUN ► PA2 MODE key 5sec



Set Preset hysteresis of OUT2 within 10% of F.S. But, it is not displayed when out. mode is SERL

PEY.L Set monitoring delay time. Set range : 00 to 30 sec. MODE Set display period and also variable sets by 0.1 sec. Set range: 0.1 to 5.0 sed

Select color with 5 modes.

Fed * Ern *** YEL***** For ***

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**Color is changed only when error cocurs.

**Color is changed only when error in

**Color is changed only when error in **Color is changed only when error in
**(a) Error display function* occurs excluding 'over'.

Select eurer 1000 by external signal.

MODE

HoLd: Display value holding,
Far a: Zero adjustment by hold terminal. Set High-limit value of DC 20mA output position of PV output.

XWhen changing input range and prescale mode, the setting values of £5-H and £5-L are changed automatically as max/min. value of input range. MODE Set Low-limit value for DC 4mA output position of PV output. MODE Set address of RS485 communication output. Set range: 01 to 99 Set baud rate of RS485 communication output Selectable : 9600 ↔ 4800 ↔ 2400 ↔ 1200 MODE Set stop bit of RS485 communication.

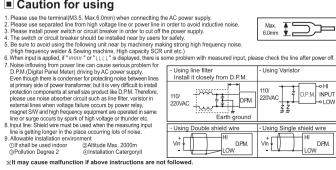
Set response waiting time of RS485 communication.

Set range: 5 to 99 oFF No key Lock function LoC2 Parameter 1,2 lock LoC1 Parameter 1 lock LoC3 Parameter 0,1,2 lock

Enable zero adjustment by front key operation to select 955. Press both (4) keys at the same time for 3 sec. The deviation value is saved at 1 nb.t. automatically.

Select either hold input by terminal 11, 12 or zero set

Caution for using



■ Main products

Autonics Corporation

EP-KE-77-0012

Max. 6.0mm