F381A GRAPHIC DISPLAY TOUCH PANEL TYPE DIGITAL INDICATOR



Comparison & Hold Function by Waveform Display

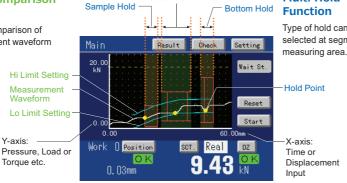
These functions are used to judge the acceptability of measurement waveforms. Depending on type of applications. Waveform Comparison Function and Multi Hold Function can be jointly utilized for judgment.

Waveform Comparison Function

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CC-Link **Device**Net

Hi and Lo limit comparison of overall measurement waveform can be performed.



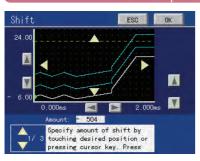
Inflection Point Hold

- 4000 times/sec. high-speed processing
- Analog monitor output
- Voltage output is proportionate to the input signal making the recording on recorder convenient. Approx. 2 V per 1 mV/V strain gauge input
- Variety of interfaces
- RS-232C / CC-Link / DeviceNet /Ethernet
- 3.5-inch color LCD module & touch panel
- Operation can be effortlessly performed by a direct touch on the touch panel.
- Excellent operability

F381A is right-down demanding on straightforwardness and is therefore made able to automatically mask non-required setting items and also to display setting in the required sequence when that particular set item has specific setting sequence.

I/O Input: Plus common / Minus common shared I/O Output: Sink type / Source type selectable. It can be connected to various types of external equipments such as PLCs.

Waveform comparison function



This function compares the actual measurement waveform against the setup High/Low limit waveforms and will give out an NG judgment when any of the point exceeded the preset High/Low limit waveforms. As it compares the overall measurement waveform. accurate judgment can be made even applications that are unable to narrow down its judgment points.

▲Setup Waveform Creation Screen

The High/Low limit waveforms can be easily created on the actual measurement waveform or on the setup waveform creation screen.

Saves Measurement Data in SD Card Multi Hold Measurement data and set values can be logged Function (recorded) in the SD Card where it can be retained as a 100% recorded quality data or be used when Type of hold can be selected at segmented

X-axis:

Time or

setting up equipments or when performing cause analysis or improvement of problems. The data can be easily converted to CSV format and is therefore easily edited in Excel or its like.



Example data in CSV format

Multi hold function

After the measuring range is segmented, judgment is carried out while the type of hold (sample, peak, bottom, P-P, Average, max, min, inflection point, End Displacement) is interchanged as set.

The multi hold function can specify the Hi/Lo limit value and type of hold at each of the segmented range. Multipoint judgment is possible because the multi hold function is capable of using the peak hold to detect the inhibit timer immediately after the press-fit is started and then uses the inflection point hold to judge the load just before the ramming is commenced.

Displacement input as a standard equipment

It performs 2-dimensional waveform comparison & multi hold through its dual input from the displacement sensor and strain gauge sensor.

On X-axis, voltage or pulse input can be connected while on Y-axis, strain gauge sensor can be connected. This is highly effective for applications which are difficult to control only by time factor such as the control for pressing time of press machines and for the imposing time on works with individual differences.

* When nothing is connected with X-axis, Waveform Comparison & Multi Hold by the time series can be done * The voltage input is an option.

Judgment results display

The comparison results of Waveform Comparison Function and Multi Hold Function can be verified on the display. [Result(List)] (An individual display) and [Result(Single)] (a list display) to selection is possible. (Latest 40 data)

Result(Lis	t)		Single Hai	in	Result(Sin	ngle)		List 1
		SCT. 1	234514	ave	01 / 4	0 💌	Н	12/07/13 10
No. Tine	ALL	Y (kN) X (mn)	Work D	Γ Y r	kN)	Хс
		5.13	2.80	OK	SCT. 1	5.13	U.	2.80
02. 10:22:05		4.60 0	K 2.10	OK				
03. 10:21:00		3.69 0	IK 0.90	OK	SCT. 2	7.57	OK	6.00
04. 10:20:45		3.67 0	IK 0.88	OK	SCT. 3	10.01	OK	9.20
05. 10:20:31		3.68 0	IK 0.89	OK	SCT. 4	12.30	H	12,20
06. 10:20:17		3.66 0	K 0.87	OK				10100
07. 10:20:01		3.70 0	K 0.92	OK	SCT. 5	13.29	OK	13.50
08. 10:19:36		3.69 (OK	Wave		OK	
1/5				Del	Wave No.:	008		

【Result(List)】

UNIPULSE

Interface

Sensor input					
- Sensor input for load (strain gau	ge input)				
Excitation voltage		Depending on setting) Output current: Within 30 mA			
Signal input range	-3.0 to +3.0 mV/V				
Accuracy		02% FS±1 digit (at 3.0 mV/V input)			
	Zero drift: Within 0.5 μ V/°C RTI				
	Gain drift: Within 0.				
Analog filter	Low-pass filter (-6 dB/o	ct.) Selectable from 10, 30, 100, and 300 Hz			
A/D converter	Speed: 4000 tim				
	Resolution: 24 bit (bir	nary) Effective resolution: Approx. 1/30000 to 3.0 mV/V			
Analog voltage output	Output level: Approx.	2 V per 1 mV/V input			
		sistance 2 kΩ or more			
- Sensor input for displacement (sta	ndard: pulse input open c	ollector) Option: Pulse input (Line driver [LDI])			
Maximum input frequency	50 kHz				
Internal count range	Approx. 1,000,000				
Adaptable rotary encoder	Output: Incremental type 2-phase output (A/B-phase signal output)				
		single-phase output			
		used. All pulses are counted as in the plus direction.)			
		ecification: Open collector			
		/ or more, Ic = 30 mA or more)			
		ecification (LDI) Line driver (Based on RS-422)			
- Sensor input for displacement (Op					
Signal input range	-5 to +5 V				
Signal input range Input impedance	5 to +5 V Αρργοχ. 10 ΜΩ				
Zero adjustment range		adjustment by digital processing			
Equivalent input calibration range	-5 to +5 V Automatic:				
Equivalent input calibration range	-5 to -1 V, +1 to +5 Within 0.1% FS	v			
Actual calibration range	-5 to +5 V * In Appro	$-0.01 t_{0} \pm 0.01 V$			
Actual calibration range		alibration point to calibration is impossible.			
Assurasy		02% FS±1 digit (at 5 V input)			
Accuracy		$\mu V/^{\circ}C RTI$			
	Gain drift: Within 0.				
Analog filter					
A/D converter	Speed: 4000 tim	ct.) Selectable from 10, 30, 100, and 300 Hz			
A/D converter					
Display	Resolution: 24 bit (bit	nary) Effective resolution: Approx. 1/30000 to 5 V			
Display	TFT color LCD module				
Display		1(W) × 53(H) mm			
		20 × 240 dot			
Indicated value					
mulcateu value		9999 to +9999			
mundleu value	Displacement: -9	9999 to +32000			
	Displacement: -9 Decimal place: S				
Display frequency	Displacement: -9	9999 to +32000			
	Displacement: -5 Decimal place: S Fixed at 3 times/sec.	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0			
Display frequency	Displacement:{ Decimal place: S Fixed at 3 times/sec.	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0			
Display frequency	Displacement:5 Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch (Measuring range can b	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for			
Display frequency	Displacement:{ Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch (Measuring range can b judgment can be perfor	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med.			
Display frequency	Displacement:	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum,			
Display frequency	Displacement:	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement			
Display frequency	Displacement:	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored)			
Display frequency	Displacement:	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo			
Display frequency	Displacement:	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the			
Display frequency	Displacement:	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P. Relative Maximum, Relative Minimum, le, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then			
Display frequency Measurement functions	Displacement:	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P. Relative Maximum, Relative Minimum, le, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then			
Display frequency	Displacement:	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P. Relative Maximum, Relative Minimum, le, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then			
Display frequency Measurement functions	Displacement:	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P. Relative Maximum, Relative Minimum, le, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then			
Display frequency Measurement functions	Displacement:	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then n will be NG.			
Display frequency Measurement functions External signal Output signal	Displacement:	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the r of its points exceeds the preset waveform, then n will be NG.			
Display frequency Measurement functions External signal Output signal	Displacement: 45 Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch (Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset Hi / Lo and if any the measured waveform Output Type S (C	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then n will be NG.			
Display frequency Measurement functions External signal Output signal	Displacement: 49 Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch (Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset Hi / Lo and if any the measured waveform Output Type S (0 C	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then n will be NG. Source type selectable. Source type is option: [ISC]) Dutput transistor ON at signal ON.			
Display frequency Measurement functions External signal Output signal	Displacement: 5 Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch 4 Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset Hi / Lo and if any the measured waveform Output Type S C C T	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then n will be NG. Source type selectable. Source type is option; [ISC]) Dutput transistor ON at signal ON.			
Display frequency Measurement functions External signal Output signal	Displacement: 45 Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch 4 Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset Hi / Lo and if any the measured waveform Output Type S (C) Displacement Displacement C) Displacement C) Di	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then n will be NG.			
Display frequency Measurement functions External signal Output signal	Displacement: 4 Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch (Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset Hi / Lo and if any the measured waveform Output Type S (0 C T T c s Rated voltage 33	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then n will be NG. Sink type/Source type selectable. Source type is option: [ISC]) Jutput transistor ON at signal ON. 'o connect an input unit like a PLC, connect plus sommon for sink type, and minus common for ource type.			
Display frequency Measurement functions External signal Output signal	Displacement: 45 Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset Hi / Lo and if any the measured waveform Output Type S C C C C C C C C C C C C C C C C C C C	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then n will be NG. Source type selectable. Source type is option; [ISC]) Dutput transistor ON at signal ON. o connect an input unit like a PLC, connect plus sommon for sink type, and minus common for ource type.			
Display frequency Measurement functions External signal Output signal (16)	Displacement: 45 Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch 4 Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset Hi / Lo and if any the measured waveform Output Type S (c) C C C C C C C C C C C C C C C C C C C	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then n will be NG. Source type is option: [ISC]) Dutput transistor ON at signal ON. 'o connect an input unit like a PLC, connect plus formon for sink type, and minus common for ource type. 10 V 10 mA			
Display frequency Measurement functions External signal Output signal (16)	Displacement: 4 Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch (Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset Hi / Lo and if any the measured waveform Output Type S (0 C C S Rated voltage 3 Rated current 3 Isolation F Input type F	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P. Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then n will be NG. Source type is option: [ISC]) Dutput transistor ON at signal ON. o connect an input unit like a PLC, connect plus sommon for sink type, and minus common for ource type. 10 V 10 M 20 botocoupler			
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Display frequency Measurement functions External signal Output signal (16)	Displacement: 45 Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch 1 Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset Hi / Lo and if any the measured waveform Output Type S Rated voltage 33 Rated current 33 Isolation F Input type F	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform will be compared against the r of its points exceeds the preset Waveform, then n will be NG. Source type is option: [ISC]) Dutput transistor ON at signal ON. So connect an input unit like a PLC, connect plus common for sink type, and minus common for ource type. 10 V 00 mA Photocoupler Plus common Minus common shared To connect a transistor, connect NPN output type sink type for plus common and PNP output type			
Display frequency Measurement functions External signal Output signal (16)	Displacement: 45 Decimal place: S Fixed at 3 times/sec. S Multi-hold mode 16 ch (Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset Hi / Lo and if any the measured waveform Output Type S (0 C T C S Rated voltage 33 Rated current 3 Isolation F Input type T (0 C	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the r of its points exceeds the preset waveform, then n will be NG. Source type is option: [ISC]) Dutput transistor ON at signal ON. 'o connect an input unit like a PLC, connect plus sommon for sink type, and minus common for ource type. 10 V 10 mA Photocoupler Plus common/Minus common shared 'o connect a transistor, connect NPN output type sink type) for plus common and PNP output type source type if or minus common.			
Display frequency Measurement functions External signal Output signal (16)	Displacement: 45 Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch 4 Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset Hi / Lo and if any the measured waveform Output Type S C C C Rated voltage 3 Rated current 3 Isolation F Input type F C C ON Voltage 1	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the o of its points exceeds the preset waveform, then n will be NG. Source type is option: [ISC]) Dutput transistor ON at signal ON. To connect an input unit like a PLC, connect plus source type. 10 V 10 MA Photocoupler Plus common/Minus common shared To connect a transistor, connect NPN output type source type) for plus common and PNP output type source type) for minus common. 2 V or more			
Display frequency Measurement functions External signal Output signal (16)	Displacement: 44 Decimal place: S Fixed at 3 times/sec. S Multi-hold mode 16 ch (Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset H1 / Lo and if any the measured waveform Output Type S Rated voltage 33 Rated current 33 Isolation FF Input type F Input type F ON Voltage 1 OFF Voltage 34	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the of its points exceeds the preset waveform, then n will be NG. Sink type/Source type selectable. Source type is option: [ISC]) Dutput transistor ON at signal ON. o connect an input unit like a PLC, connect plus sommon for sink type, and minus common for ource type. 10 V 10 mA Photocoupler Plus common/Minus common shared o connect a transistor, connect NPN output type source type for minus common. 2 V or more 1 V or less			
Display frequency Measurement functions External signal Output signal (16)	Displacement: 45 Decimal place: S Fixed at 3 times/sec. Multi-hold mode 16 ch (Measuring range can b judgment can be perfor Sample, Peak, Bottom, Inflection Point, Averag Waveform comparison Compares the actually waveforms. The overall preset Hi / Lo and if any the measured waveform Output Type S ((C C C S Rated voltage 33 Rated current 33 Isolation F Input type T (C ON Voltage 1 OFF Voltage 33 At 24 V Load A	9999 to +32000 electable display position from 0.000, 0.00, 0.0, 0 electable display position from 0.000, 0.00, 0.0, 0 (setting values can be stored) e segmented and changeover to any hold for med. P-P, Relative Maximum, Relative Minimum, e, End Displacement mode 16 ch (setting values can be stored) measured waveform against the preset Hi / Lo measured waveform will be compared against the o of its points exceeds the preset waveform, then n will be NG. Source type is option: [ISC]) Dutput transistor ON at signal ON. To connect an input unit like a PLC, connect plus source type. 10 V 10 MA Photocoupler Plus common/Minus common shared To connect a transistor, connect NPN output type source type) for plus common and PNP output type source type) for minus common. 2 V or more			

digital	contact concor	r designed for F381A-LDI	
ululla	CONTRACT SENSO		

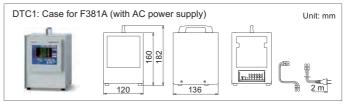
Digital contact sensor **ULE-50**

You can perform OK/NOK judgment with a Force vs Displacement curve.

Measuring range: 50 mm Resolution: 2.5 μ m

232: RS-232C communication interface CCL: CC-Link interface (option) ODN: DeviceNet interface (option) ETN: Ethernet interface (option) * Only one option can be installed Option Pulse input (line driver) LDI: VIN: Voltage Input ISC: I/O source board General specification Power supply voltage DC 24 V (±15%) Power consumption 6 W typ. Inrush current typ. 2 A, 10 msec (cold start at room temperature) Operating conditions Operation temperature: -10 to +40°C Storage temperature: -20 to +60°C Humidity: 85% RH or less (non-condensin 96(W) × 96(H) × 117.3(D) mm (Not including projections) 85% RH or less (non-condensing) External dimension Weight Approx. 1.0 kg Attachments FCN series I/O connector (with cover) Operation manual SD card 1 GByte Analog I/O connector terminal block (Already mounted on the main unit) ... CC-Link connector (when CC-Link option is selected) DeviceNet connector (when DeviceNet option is selected) Optional accessories Case for F381A (with AC power supply) DTC1 SD1G: SD card 1 GByte (Same as the attachment) SD2G SD card 2 GByte CA81-232X: miniDIN-D-Sub9p cross cable 1.5 m FCN series I/O connector (with cover)(Same as the attachment) FCN series I/O connector (with diagonal cover) CN52: CN57 CN60 CN71: Circular DIN 8p connector for RS-232C CC-Link connector Double row connector for CC-Link Analog I/O connector terminal block (Same as the attachment) CN72 CN81: CND01: DeviceNet connector GMP96x96: Rubber packing TSU03. DC Lightning surge unit CE marking EMC Directives EN61326-1 certification

Please note that there are possibilities of individual differences in a color tone on display devices such as LEDs, fluorescent display tubes and LCDs due to manufacturing process or production lots



Structure of product code

① Standard unit (Standard specs: SD card slot)

2 Displacement sensor input

Sign Displacement sensor StandardOpen collectorLDILine driver VIN Voltage ③ I/O output

Sign	Output type
Standard	Sink type (NPN output)
ISC	Source type (PNP output)

,			
④ Interface			
Sign	Interface		
Standard	RS-232C		
↓ One optional interface can be added in addition to the standard interface.			
CCL CC-Link			
ODN	DeviceNet		
ETN	Ethernet		

External dimension

