

# SI Series

## DIGITRONIK™

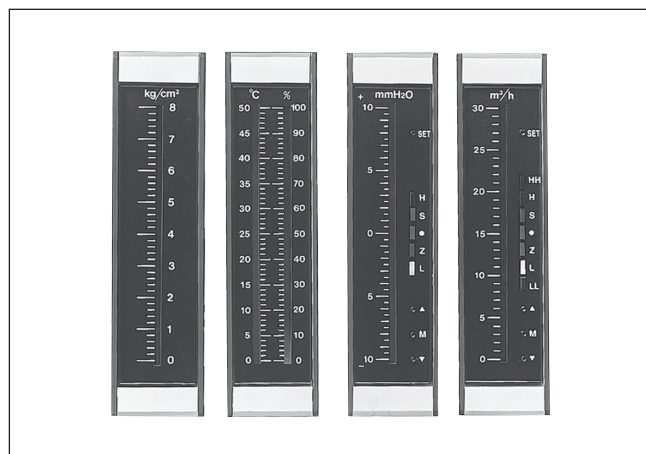
### Smart Indicator with LED Bar Graph Indicator

#### Overview

The Smart Indicator is a compact, lightweight, highly reliable single-point process faceplate, featuring DIN-sized LED bar graph indication of process variables.

#### Features

- Bar graph features high-intensity custom LED's
- Three display colors available: red, green and yellow
- Alarm setting and zero span adjustment easily performed

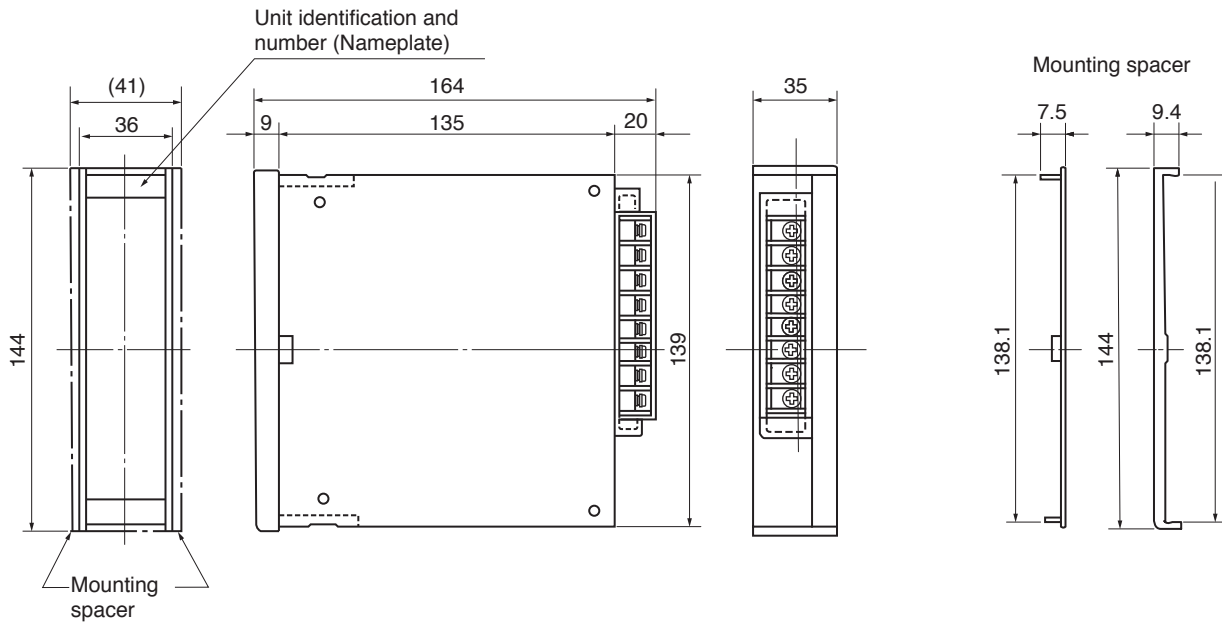


#### Specifications

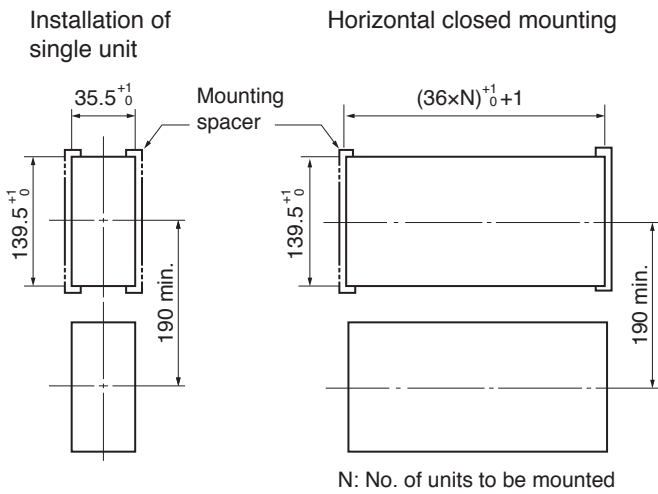
Item	Description			
	SIA	SIB	SIC	SID
Model	Model No.			
	No. of indicating points	1	2	1
	Alarm	–	–	High/low limit
Input	Input	4 to 20mA DC and 0 to 1mA DC, or voltage 1 to 5V DC, 0 to 1V DC or 0 to 5V DC		
	Response time	0.5 sec.		
	Input impedance	Lower than 10Ω at 4 to 20mA DC input, higher than 250kΩ at 1 to 5V DC input		
	Zero span adjustment	±10% FS		
Indicating action	Signals	Red, green, yellow LED bar dots (color selection) Display flashes (SIA, SIB only) when input is complete.		
	Range	0 to 100% FS		
	Accuracy	±1% FS ±1 digit		
Setting alarm (SIC-SID)	Range	High/low limit	High limit value (H) 100% FS to (low limit value + 1% FS)	
			Low limit value (L) (High limit value to 1% FS) to 0%	
		High-high limit/low-low-limit	High-high limit value (HH) 100% FS to (High limit value + 1% FS)	
			High limit value (H) (High-high limit value -1% FS) to (Low limit value +1% FS)	
			Low limit value (L) (Low limit value -1% FS) to (Low-low limit value +1% FS)	
Low-low limit value (LL) (Low limit value -1% FS) to 0%				
Output	–	Dry contact 125V AC 0.5A, 30V DC 24 resistive load		
Design	Ambient temperature	0 to 50°C		0 to 45°C
	Weight	Approx. 500g	Approx. 590g	Approx. 400g
	Storage temperature	-20 to +70°C		
	Rated voltage	100/110, 200/220, 120, 240V AC 50/60Hz, or 24V DC		
	Allowable voltage	90 to 121V (100/110V), 180 to 242V (200/220V), 102 to 132V (120V), 240 to 264V (240V), 20.4 to 27.6V DC (24V DC)		
	Construction	Case: ABS rein Cover: Acryl resin Nameplate: ABS resin		
	Standard colors	Scale: Black aluminum Bezel case: Moss green Munsell 2.5GY3/1		
	Mounting	Embedded mounting into indoor panel		
	Standard accessories	Mounting spacer (2)		

## Dimensions

(Unit: mm)



## Panel cutout



No. of mounting spacer:

One spacer on both sides of panel either for single-unit or multi-unit installation.

## Model selection guide

### Example:

(1) SIA, SIC, SID types:

I	II	II	IV	
SIA	8	C	R	A32X

(2) SIB type:

I	II	II	IV		V	
SIB	8	C	R	A32X	G	F50W

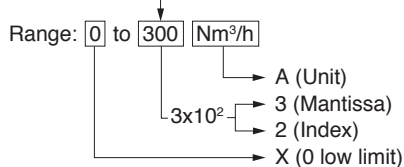
Item	Selection	Code			No. of displays	Number of alarms
I	Basic model number	SIA	↓		1	0
		SIB		↓	2	0
		SIC	↓		1	2 (High low limits)
		SID	↓		1	4 (High-high and low-low limits)
II	Power supply voltage	1	0	0	100/110V AC 50/60Hz	
		2	0	0	200/220V AC 50/60Hz	
		5	0	0	120V AC 50/60Hz	
		6	0	0	240V AC 50/60Hz	
		8	0	0	240V DC	
III	Input	C	0	0	4 to 20mA DC	
		F	0	0	0 to 1mA DC	
		L	0	0	0 to 1V DC	
		V	0	0	1 to 5V DC	
		Y	0	0	0 to 5V DC	
IV	No. 1 display color	R	0	0	Red	
		G	0	0	Green	
		Y	0	0	Yellow	
	No. 1 display range	(*)	0	0	(See range code selection table)	
V	No. 2 display color	R		0	Red	
		G		0	Green	
		Y		0	Yellow	
	No. 2 display range	(*)		0	(See range code selection table)	

### Range code selection table

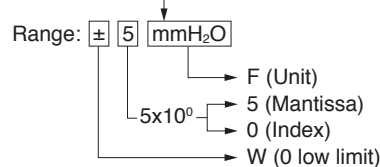
↓	Selection	Code availability																		
		A	C	D	F	G	H	I	O	Q	X	Y	Z	U	S	T	V	W	-	-
○	Unit	m <sup>3</sup> /h[N]	%	m <sup>3</sup> /h	mmH <sub>2</sub> O	kgf/cm <sup>2</sup>	l/min	°C	pH	Kcal/h	m	mm	none	ppm	hPa	Pa	kPa	MPa	-	-
○	Mantissa	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H	I	J
○	Index	7	8	9	0	1	2	3	4	5	6	-	-	-	-	-	-	-	-	-
○	Hi/Lo	X									W									
○	Range limits	Minimum value: 0									Minimum value = - (maximum value), as ±50°C (mid range: 0)									

### Example:

(1) SIA 8C R A32X E

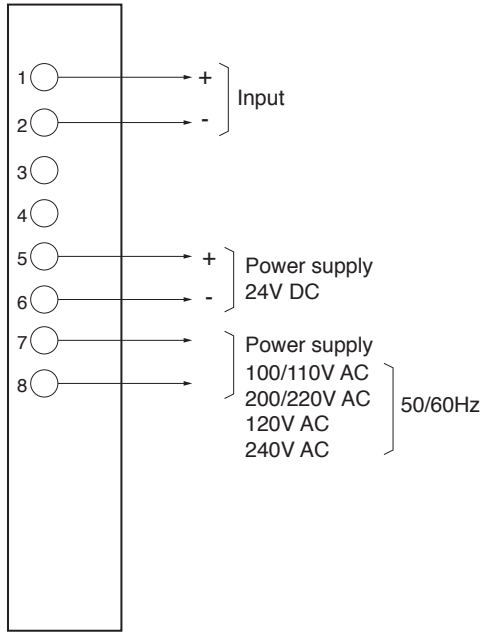


(1) SIA 8C R A32X G F50W E

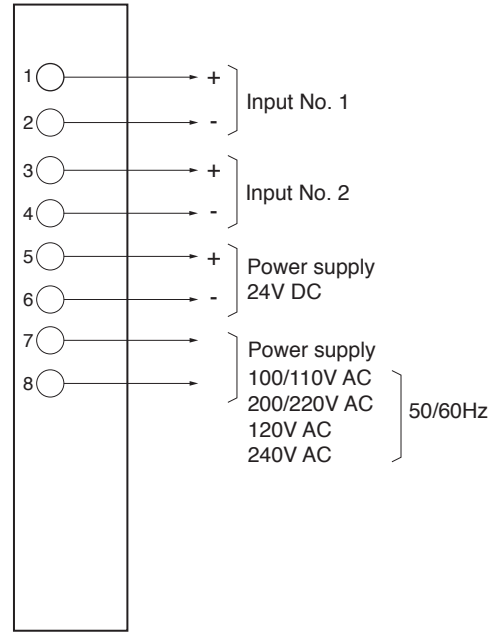


# Wiring

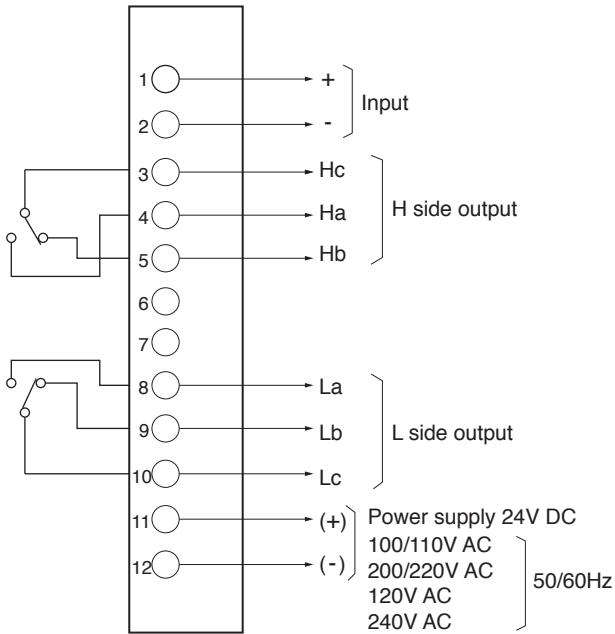
SIA type



SIB type

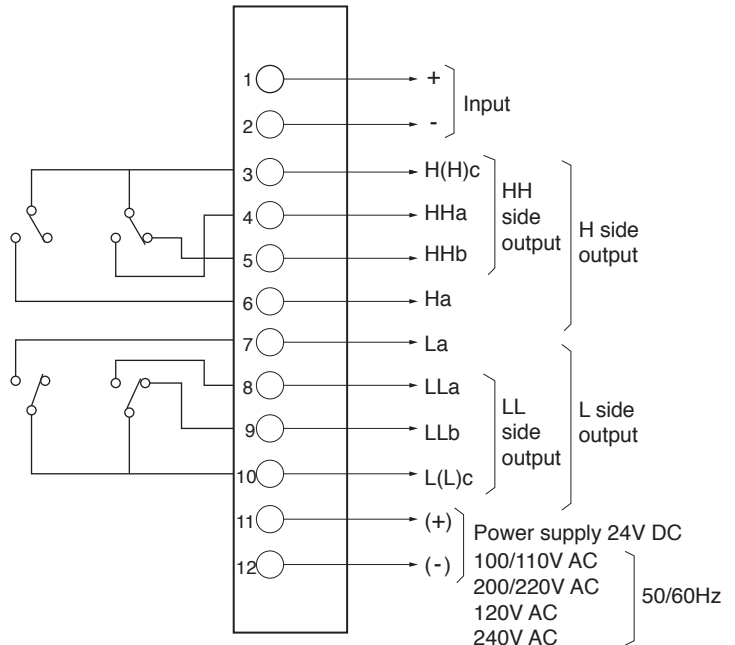


SIC type



( ) Polarity of 24V DC power supply

SID type



( ) Polarity of 24V DC power supply

Please read the "Terms and Conditions" from the following URL before ordering or use:

<http://www.azbil.com/products/bi/order.html>

Specifications are subject to change without notice.

## Azbil Corporation

Advanced Automation Company

1-12-2 Kawana, Fujisawa

Kanagawa 251-8522 Japan

URL: <http://www.azbil.com/>

1st Edition: Issued in May 1994

4th Edition: Issued in Jan. 2013

No part of this publication may be reproduced or duplicated without the prior written permission of Azbil Corporation.