

MOVING COIL TYPE ALARMING INDICATOR

■ DATA SHEET ■

PAK

The moving coil type alarming indicator is designed to receive various input signals such as FC series signals. DC voltage or current, and signals from themocouples or resistance bulbs.

FEATURES

- 1. Direct connection of input signals.
- 2. High input impedance (1M Ω for 1 to 5V DC input). No circuit adjusting resistor is required for thermocouple input.
- 3. Compact and lightweight.



Input signal: FC series signal

A; 1 to 5V DC

B; 4 to 20mA DC

DC current

D; 0 to 100 μ A 200mA DC

DC voltage

E; 0 to 10mV 5V DC

Thermocouple

F; 0 to 10mV DC or more

(with reference junction compen-

sator)

(Upper limit overshoot burnout circuit is available on request)

G; 10mV DC span or more

(with reference junction compen-

sator

(Upper limit overshoot burnout cir-

cuit is available on request)

Resistance bulb

H; JPt100 Ω

50°C span or more, 3-wire type

W; Pt100 Ω

50°C span or more, 3-wire type Ring tube (resistance span 14Ω)

Slide resistant (resistance span 100Ω)

J; 3-wire type

K; 2-wire type (with adjusting resistor) Opening angle transmitter (resistance

)pening angle transmitter (resistand span 100 Ω)

L; 3-wire type (zero point and span adjustable)



Input resistance and allowable input signal source resistance:

ut signal	Input resistance	Allowable input signal source resistance	
1 to 5V	1ΜΩ	$2k\Omega$ or less	
Others	40 k Ω to 1 Μ Ω	100 Ω or less	
4 to 20mA	5Ω	_	
Others	1 to 100Ω	_	
ouple	40 to 600kΩ	100Ω or less 50Ω or less when burnout circuit	
е		6Ω or less per wire	
	1 to 5V Others 4 to 20mA Others	$\begin{array}{ccc} \text{nut signal} & \text{resistance} \\ 1 \text{ to 5V} & 1\text{M}\Omega \\ \text{Others} & 40\text{k}\Omega \text{ to 1M}\Omega \\ 4 \text{ to 20mA} & 5\Omega \\ \text{Others} & 1 \text{ to 100}\Omega \\ \\ \text{ouple} & 40 \text{ to 600k}\Omega \\ \end{array}$	

Allowance: ±1.0% of full scale

Scale length: 100mm

Response time: Within 3 sec (time required for stabilizing

the indicator pointer within $\pm 1.5\%$ after applying input corresponding to 2/3 (ap-

prox.) of full scale)

Power supply: $100V \pm 10\%$ AC, 50/60Hz

 $*200V \pm 10\%$ AC, 50/60Hz, or

*24V_{-10%} AC, 50/60Hz

Power consumption:

Approx. 4.5VA max.

Ambient temperature:

-10 to +50°C

Ambient humidity:

Enclosure:

30 to 90%RH Steel case

External dimensions ($H \times W \times D$):

48 × 144 × 275mm

Mass{weight}: Approx. 2kg

Finish color: Munsell 7.5BG 3.2/0.8 or equivalent

EDS10-46c Date Feb. 28, 1991 Alarm device:

Upper limit (H or A), lower limit (L or B)
Upper and lower limits (K or C with one common contact)

H, L, K; Excitation alarm A, B, C; Non-excitation alarm Setting accuracy; ±1.0%

Contact; ON alarm (OFF alarm is available on request)

Contact capacity; 100V AC 0.3A/24V DC 0.2A (resistance load)

Alarm indicator lamp (available on request); Alarm signal displayed with LED mounted on indicator panel

Scope of delivery: Indicator and mounting bracket Mounting method:

Panel flush mounting

Standard;

Horizontal mounting on vertical panel Non-standard;

Tilted mounting, vertical mounting Specify $\angle \alpha$ for tilted mounting

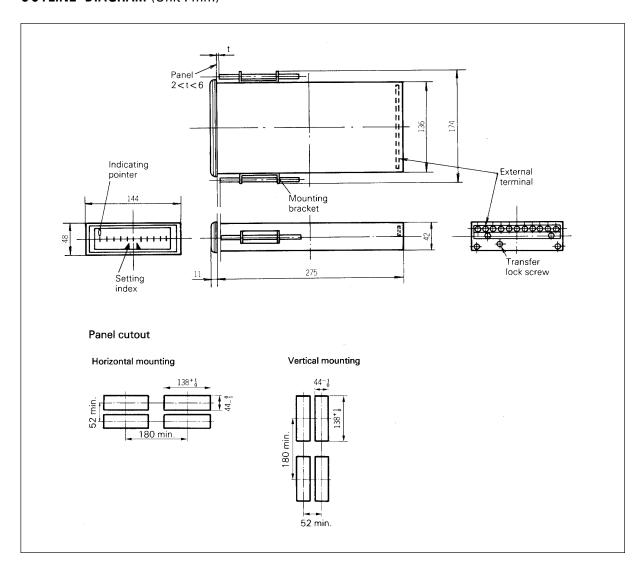


CODE SYMBOLS

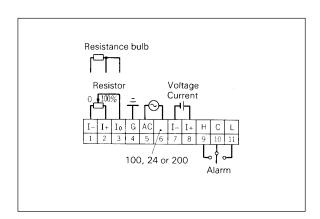
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1 2 3 4 PAK	5	6	7	2	ء - ٦	10	1	Description		
1. 1.4.4.4		-	-	٢	ŀ	+	1	Input signal		
A	ļ	ļ	ļ	ļ	4.		ļ	1 to 5V DC		
В	ļ	ļ	ļ	ļ	4.		ļ.,	4 to 20mA DC		
D	ļ	ļ	ļ		4.	.	ļ	0 to 100μA200mA DC		
E	ļ	ļ	ļ		4.	.	ļ.,	0 to 10mV5V DC		
F	ļ	ļ	ļ		4.	ļ.,	ļ.,	0 to 10mV DC or more		
ľ								(with reference junction compensator)		
G	ļ	ļ			4.		ļ.,	10mV DC span or more		
١								(with reference junction compensator)		
Н	ļ	ļ	ļ		4.		ļ	Resistance bulb JPt100 Ω		
								50°C span or more, 3-wire type		
\n,	ļ	ļ			4.	.	ļ	Resistance bulb Pt100Ω		
**								50°C span or more, 3-wire type		
J	ļ	ļ	ļ	ļ	4.	.	ļ	Ring tube, slide resistant, 3-wire type		
K	ļ	ļ	ļ	ļ	. ļ.	.ļ	ļ	Ring tube, slide resistant, 2-wire type		
								(with circuit adjusting resistor)		
L	ļ		ļ		4.	ļ	ļ	Opening angle indicator (resistance		
-								100Ω , zero point and span adjustable)		
* Z	ļ	ļ	ļ		<u>.</u>	4	ļ	Other inputs		
<u> -</u>	H	Ė			Ť	÷	t	Alarm device		
	lн	ļ	ļ		.	ļ.,	ļ	Upper limit		
	ļ	ļ	ļ		.	.ļ	ļ	Lower limit		
	۱۲	ļ	1			1	<u>.</u>	Excitation alarm		
	``							lower limits (ON alarm)		
*	lΔ	ļ	ļ		.	.ļ	ļ	Upper limit		
*	ľ. B				.	.l	ļ	Lower limit		
*	c	ļ	ļ		.	ļ.,	ļ	Non-excitation alarm		
	ľ							lower limits (ON alarm)		
	L		H	-	÷	÷	H	Power supply		
	_	1	L		1	1	<u> </u>	24V AC 50/60Hz		
	*	ľ						100V AC 50/60Hz		
	_	3 5	ļ				<u>.</u>	200V AC 50/60Hz		
	*	5	H		+	÷	⊢			
								Application		
			0		T	1	-	For general use		
			3		1	1	!	For connection zener barrier:		
								Specify "3" only when zener barrier		
								(PWZB3 or PMZB4) is to be connected		
								and thermocouple or resistance bulb		
					1	1		is used as input source.		
								Mounting method		
					1			Horizontal mounting		
				*	2	2	-	Vertical mounting		
								Alarm indicator lamp		
						0		None		
					*	1	<u>-</u> -	Provided		
						_				

Notes: Symbols of resistance bulbs are as follows. JPt100 Previous JIS standard Pt100 New JIS standard

OUTLINE DIAGRAM (Unit: mm)



CONNECTION DIAGRAMS



ORDERING INFORMATION

- 1. Product name
- 2. Code symbols
- 3. Input
- 4. Scale
- 5. Alarm device and alarm indicator lamp (whether required or not)
- 6. Power supply
- 7. Application
- 8. Other necessary information

▲ Caution on Safety

• Asterisked (*) items; Non-standard

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Information in this catalog is subject to change without notice.

^{*}Before using this product, be sure to read its instruction manual in advance.