

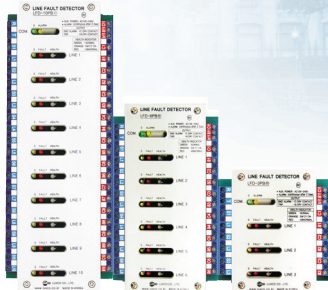
LINE FAULT DETECTOR

• LFD-3PB® / 6PB® / 10PB®

LINE FAULT DETECTOR

LFD-SERIES

LINE FAULT DETECTOR



LFD SERIES



GENERAL INFORMATION

Line fault detector monitors continuously whether line of emergency stop system is broken or not. It can be applied to marine system, power plant, steel, chemical plant and other facilities. It's a essential equipment to prevent accident spreading due to the disconnection of emergency stop S/W line when abnormal condition of a facility requires emergency stopping.

ORDERING INFORMATION

LFD-6PB[®]

10PB	10 Point
6PB	6 Point
3PB	3 Point

ORDERING INFORMATION

FRONT VIEW

SIDE VIEW

MOUNTING

4-Ø5 (for M4 screw)

5.5 t

Wiring cable Size(max.) : AWG22-14 (2.5SQ)

Pin terminal Size(max.) : Ø 2.0

Insulation tube

MODEL	DIMENSION (unit : mm)						
	A	B	C	D	E	F	G
LFD-3PB	94	130	70	102	98.5	54	116
LFD-6PB	94	190	70	162	98.5	54	176
LFD-10PB	94	270	70	242	98.5	54	256

LINE FAULT DETECTOR

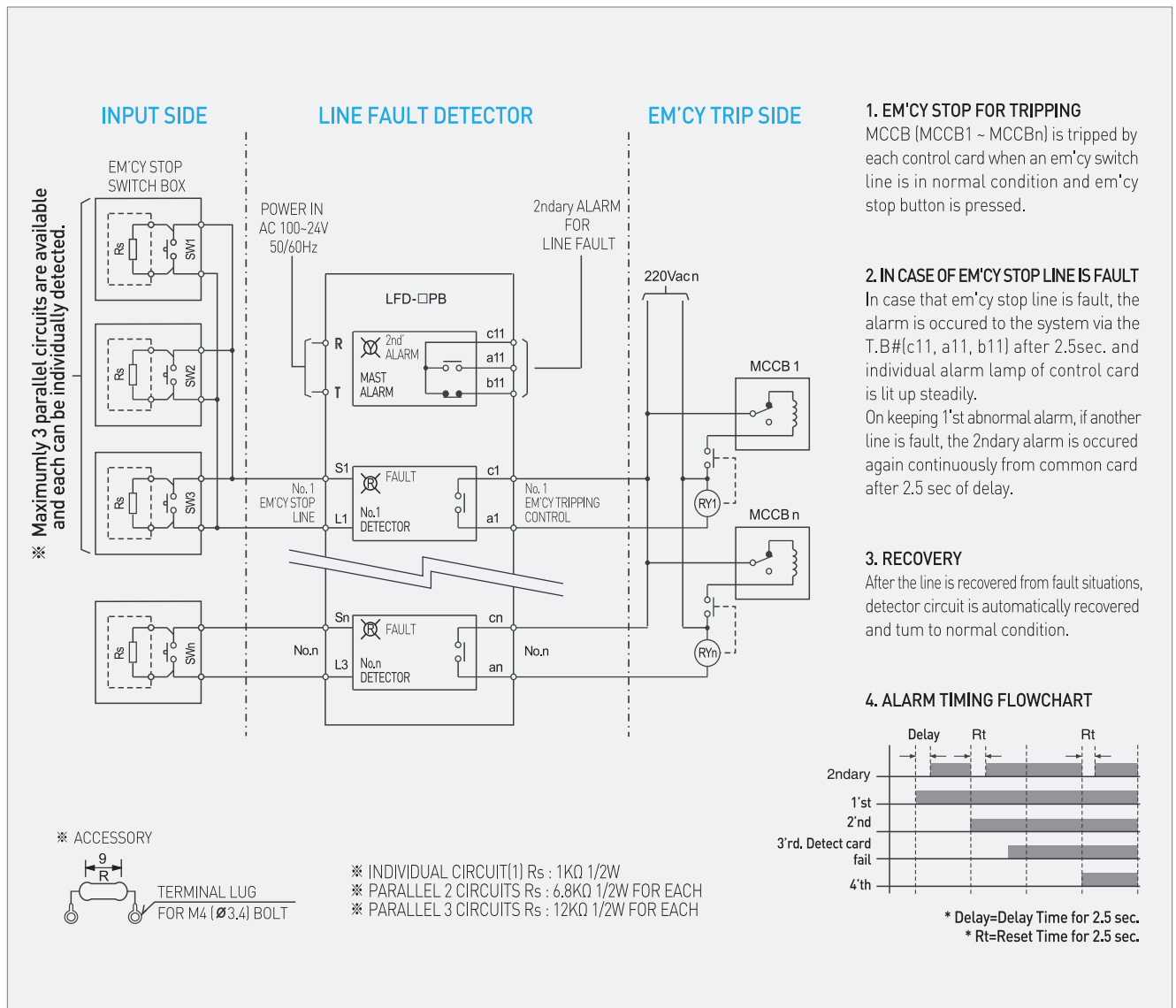
ELECTRICAL SPECIFICATIONS

POWER RATING	AC 100 ~ 240V 1PH 50/60Hz	
POWER VARIATION	AC 85 ~ 264V 1PH 50/60Hz	
INPUT SIGNAL	TYPE	"a" contact with resistor 1/2W 1K ohm for 1 circuit
	LOOP CURRENT	Below 10mA per each point
	CABLE LENGTH	Within 500m (Above 1.25 SQ)
OUTPUT SIGNAL	2NDARY ALARM OUTPUT	"1C" dry contact (30VDC 1A / 125VAC 0.5A, p.f=1)from common.
	TRIPPING CONTACT	"1a" dry contact (30VDC 5A / 250VAC 5A, p.f=1)from alarm.
FAULT ALARM DELAY TIME	2.5sec. (±0.1sec.)	
2NDARY ALARM RECOVERY TIME	2.5sec. (±0.1sec.)	
INSULATION RESISTANCE	Above 200Megger ohms between live part and enclosure.	
SURGE TRANSIENT	1KV 50uVs line / line 0.5KV 50uVs line / line (IEC 1000-4-5 / 1995)	

MECHANICAL SPECIFICATIONS

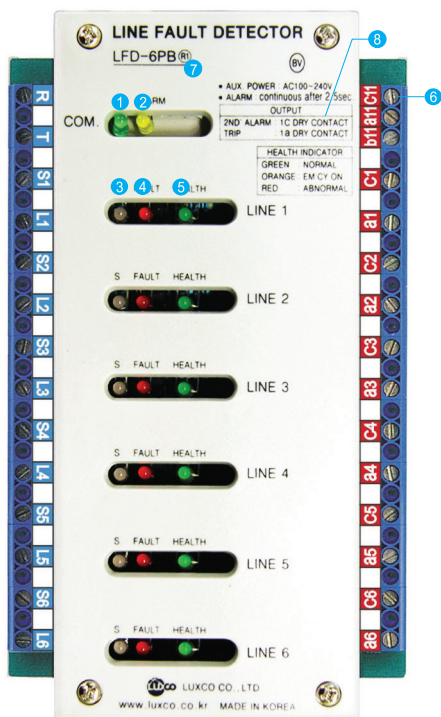
ENCLOSURE (MATERIAL)	PC (Flame retardant) UL94 V-0 / TRIREX3025G10 / G / F reinforced	
EXTERNAL CONNECTION TERMINAL BLOCK	MATERIAL	Insulating material : PA / UL94 V-0 Terminal block : CnZn
	RATED VOLTAGE	250V (UL 1059, EN60998)
	WIRE SIZE (max.)	AWG22-14 (2.5 SQ)
	TEST VOLTAGE	2.0KV
	RATED TORQUE / SCREW SIZE	0.5Nm / M3
	SPACING BETWEEN TERMINALS	5.0mm
AMBIENT CONDITIONS	AMBIENT TEMP.	-10°C ~ +60°C
	STORAGE TEMP.	-20°C ~ +70°C
	HUMIDITY	20% ~ 90%R.H
VIBRATION TEST	30Hz for 2hours (acceleration : ±0.7G)	

APPLICATION CIRCUIT



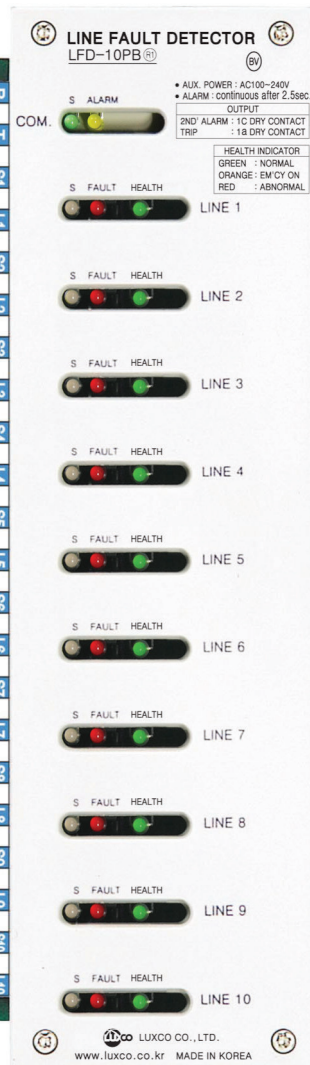
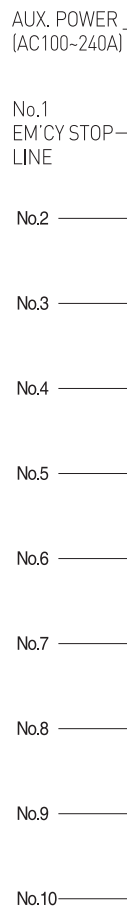
TERMINAL BLOCK LAYOUT & OUTLINE DESCRIPTIONS

LFD-6PB[®] (6 POINT ALARM)

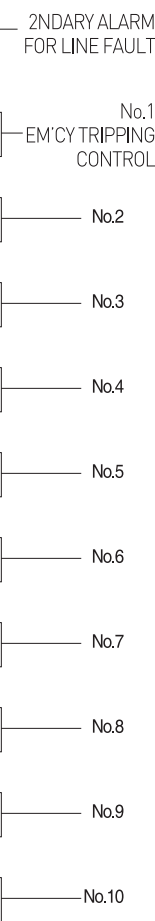


LFD-10PB[®] (10 POINT ALARM)

INPUT SIDE



OUTPUT SIDE



- 1 COMMON SOURCE INDICATOR
3Ø LED (light up in green)
- 2 2NDARY ALARM INDICATOR
3Ø LED (light up in yellow)
- 3 LINE SOURCE INDICATOR
3Ø LED (light up in white)
- 4 LINE FAULT INDICATOR
3Ø LED (light up in red)
- 5 HEALTH INDICATOR
3Ø LED (light up in green)

GREEN : NORMAL
ORANGE : EM'CY ON
RED : ABNORMAL (Detect card fail)

- 6 EXTERNAL CONNECTION T.B
(UL-1059, EN60998)
- 7 MODEL NAME
- 8 RATING

- AUX. POWER : AC100-240 V
- ALARM : CONTINUOUS AFTER 2.5 SEC.

OUTPUT

2ND'ALARM : 1C DRY CONTACT TRIP
: 1a DRY CONTACT

LFD-3PB[®] (3 POINT ALARM)

