

LOOP4-VME-UB

Urban purpose optimized,
Loop Vehicle Detector
for Korean Police Standard & COSMOS Standard

FEATURES

General Features

- 4ch. loop vehicle detector.
- VME BUS Backplane Interface.
- High reliable surge protection.
- Internal parameter monitoring function.
(Via RS232C Async. port.)
- Meets for korean police standard & COSMOS standard.

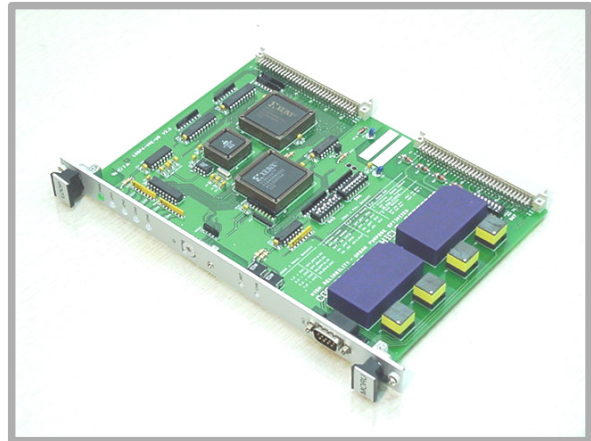
Special Features

- Hardware methode loop head status monitoring function.
- Automatic environment factor tracking algorithm.
- Easy sensitivity setting.

SPECIFICATIONS

General Specifications

- Loop CH. Count : 4ch/board
- Sensitivity Setting : 4step
- Loop Inductance : 30-2000uH
- Backplane Interface : VME Bus.
- VME access AM code : 29h, 2Dh
29h : Short supervisory Access mode.
2Dh: Short non-privileged Access mode.
- Vehicle speed : 1- 160Km/hour
- Real Time Loop Head Status Monitoring
: Short Monitoring
: Open Monitoring
- Operating Power
: +5V / 400mA (max.)
: +12V DC / 200mA (max.)



- Operating Temperature: -34°C ~ +74°C
- Operating Humidity : 95% (max.)
- Line Isolation : 2.0KV

BUS Interface Specifications

- VME bus interface
: 16bit short I/O mode
(AM code 29h/2Dh)
- Base Address
: DET. Slot #1-#8 (ID Setting : 0-7)
; FFFF0000h - FFFF00FFh
- DTACK delay
: 180ns - 350ns

I/O Map Specifications

- RD : Offset 0h (FFFF00x0h ; x = ID x 02h)

ADDRESS		DATA		REMARK
LOW BYTE	b0	CH1	OCC.	0:비점유, 1:점유
	b1		OPEN	0:정상, 1:단선
	b2		SHORT	0:정상, 1: SHORT
	b3		OSC.	0:정상, 1:발진불량
	b4	CH2	OCC.	0:비점유, 1:점유
	b5		OPEN	0:정상, 1:단선
	b6		SHORT	0:정상, 1: SHORT
	b7		OSC.	0:정상, 1:발진불량
HIGH BYTE	b8	CH3	OCC.	0:비점유, 1:점유
	b9		OPEN	0:정상, 1:단선
	b10		SHORT	0:정상, 1: SHORT
	b11		OSC.	0:정상, 1:발진불량
	b12	CH4	OCC.	0:비점유, 1:점유
	b13		OPEN	0:정상, 1:단선
	b14		SHORT	0:정상, 1: SHORT
	b15		OSC.	0:정상, 1:발진불량

- WR : not used.

DIP SWITCH configuration

– SW3 (Sensitivity Select)

SWITCH ID	CH	REMARK
8BIT DIP SW.	1(L)	1
	2	
	3	2
	4	
	5	3
	6	
	7	4
	8(R)	

OFF(L),OFF(R) : 0.5%
OFF,ON : 0.2%
ON,OFF : 0.1%
ON,ON : 0.02%

– SW6 (Function Select)

SWITCH ID	FTN	REMARK	
8BIT DIP SW.	1(L)	TIME LIMIT	OFF(L),OFF(R) 30MIN
			OFF,ON 10MIN
			ON,OFF 3MIN
			ON,ON NO LMT.
	3	CH. CNT	OFF(L),OFF(R) 4CH.
			OFF,ON 1CH.
			ON,OFF 2CH.
			ON,ON 3CH.
	5	ASPALT	OFF NOR.
		Thickness	ON Thick
	6	reserved	-
	7	Tracking Speed	OFF Typical
			ON Slow
	8(R)	B/P BUS	OFF VME
ON OLD			

– SW7 (B/P Bus Select)

SWITCH ID	FTN	REMARK
8BIT DIP SW.	1(UP)	BACKPLANE BUS TYPE SELECT
	2	
	3	
	4	
	5	
	6	
	7	
	8(DN)	

ALL OFF : VME
ALL ON : OLD

– SW8 (B/P Bus Select)

SWITCH ID	FTN	REMARK
2BIT DIP SW.	1(UP)	BACKPLANE BUS
	2(DN)	TYPE SELECT

ALL OFF : OLD
ALL ON : VME

LED function description

NAME	COLOR	REMARK
PWR	Green	POWER LED.
CH1	DUAL	GREEN : NO OCC. (비점유)
CH2	DUAL	AMBER : OCC (차량 점유)
CH3	DUAL	RED : LOOP SHORT ERR.
CH4	DUAL	RED FLICKER : LOOP OPEN ERR.

ID switch description

ID setting	BASE ADDR	REMARK
10 STAGE BINARY ROTARY SWITCH	0	FFFF0000H
	1	FFFF0020H
	2	FFFF0040H
	3	FFFF0060H
	4	FFFF0080H
	5	FFFF00A0H
	6	FFFF00C0H
	7	FFFF00E0H
	8	-
9	-	
REMARK	No SLOT Position restriction.	

RST / CHK switch description

– RST switch

: Board reset switch.

– CHK switch

: DIP. Switch setting status confirm.

SENS. SET	FLICKER TIMES	REMARK
8BIT DIP SW. (SW3)	0.5%	1
	0.2%	2
	0.1%	3
	0.02%	4

EACH CH. LED DISPLAYS FOR EACH CH. SENS. SETTING STATUS.

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