	OP	TICAL FI	SPECIFIC BER TYF PK8-0 (PNP OU	PE AMI CRA	PLIFI	ER UN		Mar.14th'02
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Symbol		Amended	reason		Pages	Date	Corrector	Amended No.
Approved by	Checked by	Drawn by	Designed by		1			
дриочей бу	ensolited by			Title	Optical Fiber Type Amplifier Unit PK8-CRA Specifications			
			KITADA	Drawing No.		C-42-31	42	1/4

HOKUYO AUTOMATIC CO.,LTD.

_							
1. Kind ar	nd model No.						
Kind		Optical fiber type amplifier unit					
Model N	Jo.	PK8-CRA					
2. Specific							
Power so		12 to 24VDC +/- 10% Ripple 10%p-p or less					
	consumption	45mA or less					
	n distance	11cm or more(When using fiber with core in dia.1.0mm and fiber length 2m)					
(Reflecti		2.5cm or more(When using fiber with core in dia. 0.5mm and fiber length 2m)					
	on distance	` `		dia.1.0mm and fiber length 2m)			
	h-beam type)	7.5cm or more(When using fiber with core in dia. 0.5mm and fiber length 2m)					
Hysteres		0 to 20%(Automatic setting)					
Respons		500μsec or less	. 1 37 3				
Output ti		Changeable for 40msec OFF-D		Delay			
	ty adjuster	Automatic setting by push-butto		D 1 0)			
Operatio			Changeable for Light-ON operation(L-ON) or Dark-ON operation(D-ON)				
Control	output	PNP transistor open-collector output					
		Allowable load voltage: Max. 30VDC Allowable load current: Max. 100mADC					
		Residual(ON) voltage: Max. 1.3V/100mA, 0.5V/10mA					
		Leakage(OFF) current : Max. 10μA					
Protectiv	e circuit	Protection against reverse power connection, Protection against output short-circuited, Protection against output counter voltage					
Indicatio	n lamp	Output lamp(Orange LED): (Lights up when output transistor is ON)					
	1	RUN lamp(Green LED): (Flickers when operating)					
		Operation mode lamp(Green LED): (Flickers when Light-ON mode) Timer lamp(Green LED): (Flickers when output timer is set)					
		Timer lamp(Green LED): (Flickers when output timer is set) Light-reception margin level lamp(Green LED): (Total 6 points: 5 times, 2 times, 1.15					
		times, 1/1.15 times, 1/2 times, 1/2					
times or less)				times or less)			
Connect	ion	Cable type(2m, 0.2mm ²)					
Brown: 12 to 24VDC Blue: 0V							
		Black: Control output					
Installati	on	DIN rail and bracket installation	1				
3. Quality		T .					
-	n resistance	20M ohm or more/500V megger(Between bracket and power line)					
	nd voltage	1,000VAC 50/60Hz per minute(Between bracket and power line)					
Noise re	sistance	Pulse width: 1µsec, rise: 1nsec, Wave peak value: 1,000V, Polarity: + and -, Power synchronous phase: 0 to 360 degrees(Between bracket and power line)					
Δmhient	t illuminance	Sun light: 10,000lux or less, Incandescent lamp: 3,000lux or less,					
Amorem	t murimanec	Inverter fluorescent lamp: 2m or more away					
Ambient	t temperature	-25 to 55 degrees C when operating(Not frozen)					
A 1:	. 1 . 11.	-40 to 70 degrees C when storing					
	t humidity	35 to 85%RH when operating					
Vibration resistance		Double amplitude: 1.5mm, Frequency: 10 to 55Hz Each 2 hour in X, Y and Z direction 500m/S ² (Approx. 50G) Each 3 time in X, Y and Z directions					
Impact resistance		IP66(When using protective cover)					
Protective structure		Case : Heat resistance ABS, Cover : Polyarylate					
Material External dimension		Nominal: W11×H30×D65mm					
		Approx. 75g(Including bracket)					
Weight Approx. 75g(Including bracket)							
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4. Functions

[1] RUN mode

This is operating status. Control output is active.

(1) Indication lamps

RUN: Flickering

L-ON: Flickers when light-reception operating mode, goes off when light-interruption operating mode

Timer: Flickers when timer mode is ON, goes off when timer mode is OFF

OUT: Lights up when control output is ON

STB 1 to 6: Real-time light-entering margin level

6:5 times or more or saturated

5:2 to 5 times

4: 1.15 to 2 times

3: 1/1.15 to 1.15 times

2: 1/2 to 1/1.15 times

1: 1/2 times or less

- (2) It is changed to TEST mode by pushing mode switch for 1 sec or more.
- (3) Max. sensitivity adjustment and reset are available.

[2] TEST mode

Each setting and control output are fixed to OFF.

(1) Indication lamps

RUN: Goes off

L-ON: Lights up when light-reception operating mode, goes off when light-interruption operating mode

STB2: Goes off when light-reception operating mode, lights up when light-interruption operating mode

Timer: Lights up when timer mode is ON, goes off when timer mode is OFF

STB1: Goes off when timer mode is ON, lights up when timer mode is OFF

OUT: Goes off

STB 3 to 6: Light-entering margin level when completing sensitivity adjusment

6:5 times or more or saturated

5:2 to 5 times

4: 1.15 to 2 times(Waiting for first teaching when flickering)

3: 1 to 1.15 times(Waiting for second teaching when flickering)

- (2) It is changed to RUN mode by pushing mode switch for 1 sec or more
- (3) Max. sensitivity adjustment and reset are available but it is returned to RUN mode after indicating reception sign.
- [3] Max. sensitivity adjustment: Set to Max. sensitivity by pushing set switch for 1 sec or more
- [4] Reset: All setting is reset by pushing both mode switch and set switch simultaneously and it is returned to initial value(Standard).

	Setting when shipment(Initial setting)
Output operation mode	Light-reception operating mode(L-ON)
Timer mode	Non-timer
Timer time	40msec
Sensitivity adjustment	Max.
Hysteresis	13%

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