

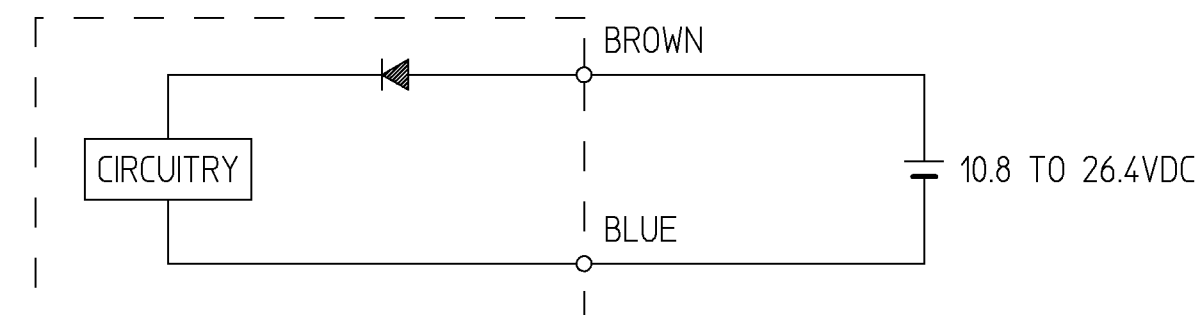
SR. No.	800-8-141-0	Yamatake Corporation	製品仕様書 SPECIFICATIONS	THROUGH SCAN			OUTPUT MODE	OPERATING MODE	CORD LENGTH (L)
				SET	EMITTER	RECEIVER			
		1. DIMENSIONS		HPJ-T21	HPJ-E21	HPJ-R21	OPEN COLLECTOR OF NPN TRANSISTOR	DARK ON	2000 min.
			HPJ-T21-L05	HPJ-E21-L05	HPJ-R21-L05	OPEN COLLECTOR OF NPN TRANSISTOR	DARK ON	5000 min.	
			HPJ-T22	HPJ-E21	HPJ-R22	OPEN COLLECTOR OF PNP TRANSISTOR	DARK ON	2000 min.	
			HPJ-T22-L05	HPJ-E21-L05	HPJ-R22-L05	OPEN COLLECTOR OF PNP TRANSISTOR	DARK ON	5000 min.	
			HPJ-T23	HPJ-E21	HPJ-R23	OPEN COLLECTOR OF NPN TRANSISTOR	LIGHT ON	2000 min.	
				4 MATERIAL CASE : PC/ABS ALLOY / BLACK LENS : PC / CLEAR ORANGE MOUNTING BRACKET : AL +1 3 MOUNTING BRACKET, SCREW AND NUT ARE INCLUDED. 2 CORD 0.08mm ² (16/0.08) COLOR: GRAY (RECEIVER) BLACK (EMITTER) NOTE 1 LENS DIAMETER: φ4					
				作成DR T.Koike 9-5-'95 検図CHK. T.Nakao 9-5-'95 認可APPD S.Nonaka 9-5-'95 日付DATE					
				形番 MODEL HPJ SERIES 名称 NAME PHOTOELECTRIC SWITCH 図番 NO. AD41451E					
				改番REV. RECORD 来歴 : 日付 DATE 担当 BY 検閲 APPD.					
2	04			改番					
頁	改番								

2. SPECIFICATIONS

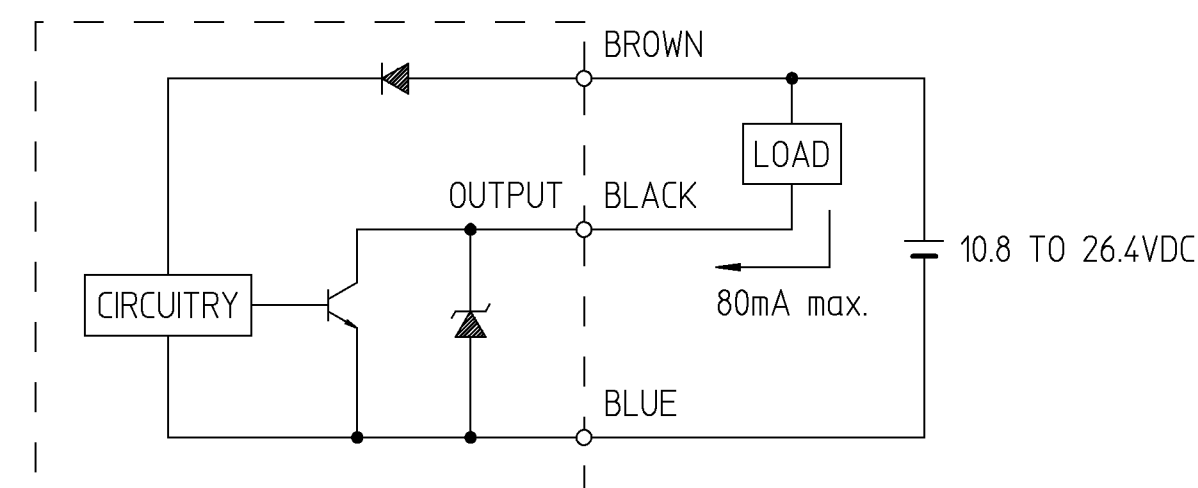
	SPECIFICATION		
CATALOG LISTING	SET : HPJ-T21(-L05) EMITTER : HPJ-E21(-L05) RECEIVER : HPJ-R21(-L05)	SET : HPJ-T22(-L05) EMITTER : HPJ-E21(-L05) RECEIVER : HPJ-R22(-L05)	SET : HPJ-T23 EMITTER : HPJ-E21 RECEIVER : HPJ-R23
SCANNING TYPE	THROUGH SCAN		
SUPPLY VOLTAGE	10.8 TO 26.4VDC (RIPPLE 10%max.)		
CURRENT CONSUMPTION	40mA max. (EMITTER:20mA max., RECEIVER:20mA max.)		
SCANNING DISTANCE	1.5m		
TARGET	OPAQUE MATERIALS MORE THAN 4mm DIA.		
OPERATING ANGLE	3 TO 30°		
OUTPUT MODE	OPEN COLLECTOR OF NPN TRANSISTOR	OPEN COLLECTOR OF PNP TRANSISTOR	OPEN COLLECTOR OF NPN TRANSISTOR
OPERATING MODE	DARK ON		LIGHT ON
OUTPUT	LOAD CURRENT : 80mA max. (RESISTIVE LOAD) SATURATION VOLTAGE : 1V max. (AT 80mA LOAD CURRENT) OUTPUT WITHSTAND VOLTAGE : 26.4V		
RESPONSE TIME	1ms max		
FALSE PULSE (AFTER POWER ON)	1ms max		
LIGHT SOURCE	INFRARED LED		
INDICATOR	RED 'ON' WITH OUTPUT ON		
AMBIENT LIGHT	INCANDESCENT LIGHT : 3000lx max. SUNLIGHT : 10000lx max.		
OPERATING TEMPERATURE	-20 TO +50℃ (WITHOUT CONDENSATION)		
OPERATING HUMIDITY	35 TO 85%RH (WITHOUT CONDENSATION)		
STORAGE TEMPERATURE	-40 TO +70℃ (WITHOUT CONDENSATION)		
STORAGE HUMIDITY	35 TO 85%RH (WITHOUT CONDENSATION)		
INSULATION RESISTANCE	20MΩ min. (AT 500VDC)		
DIELECTRIC STRENGTH	1000VAC 50/60Hz 1MINUTE (BETWEEN LIVE PARTS AND ENCLOSURE)		
VIBRATION	10 TO 55Hz 1.5mm DOUBLE AMPLITUDE 2HOURS IN EACH DIRECTION OF X,Y,Z		
SHOCK	500m/s ² 3TIMES IN EACH DIRECTION OF X,Y,Z		
SEALING	IP40 (IEC STANDARD)		
WEIGHT	APPROX 20g (ONLY SENSOR WITH CABLE 2m)		
PROTECTION	REVERSE POLARITY PROTECTION		
EMC	EN61000-4-2:1995	LEVEL 1	
	ENV50140:1993	LEVEL 3	
	ENV50204:1995	LEVEL 3	
	EN61000-4-4:1995	LEVEL 3	
	IEC255-5:1977	LEVEL 0	
	ENV50141:1993	LEVEL 3	

3. CONNECTION

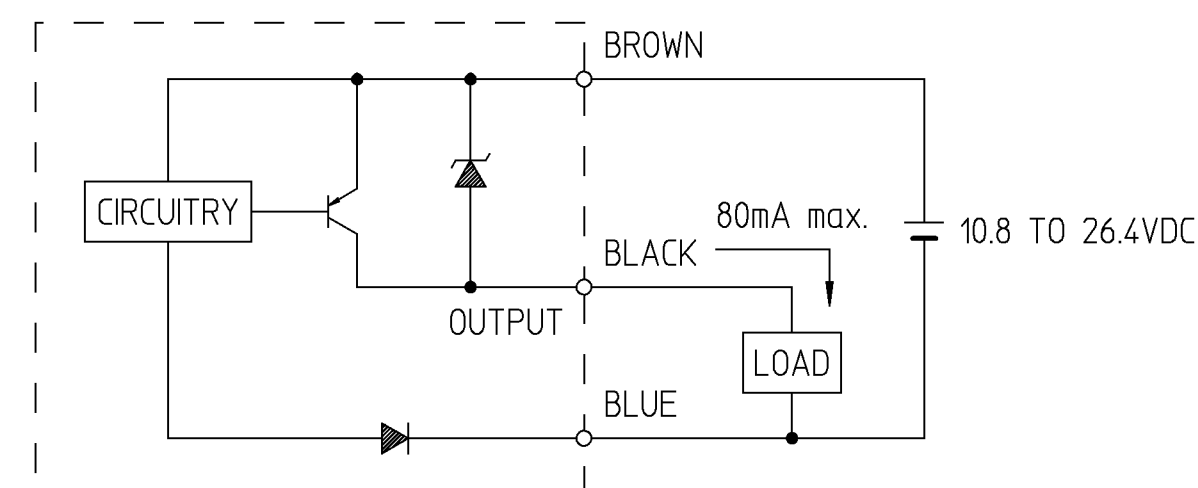
EMITTER (HPJ-E21(-L05))



RECEIVER (HPJ-R21(-L05).-R23)



RECEIVER (HPJ-R22(-L05))



					作成 DR. K.TSUTSUI 8-23-'95		尺度 SCALE	記入のない公差 TOL. UNLESS NOTED		
04	~				検図 CHK. T.NAKAO 9-5-'95	形 番 MODEL	HPJ SERIES			
03	~				認可 APPD. S.NONAKA 9-5-'95	名 称 NAME	PHOTOELECTRIC SWICH			
02	~				日付 DATE	図 番 NO.	AD41451E		改番REV 04	2/2
01	~									
改番 REV	来歴 RECORD	日付 DATE	担当 BY	検閲 APPD						