

FEATURES

- Compact size
- Effective area: $\phi 15$ mm
- Vibration resistance / shock resistance
- Low power consumption
- For photon counting (H7826P/P-01)

APPLICATIONS

- Portable radiation measurement
- Semiconductor inspection
- Chemiluminescence measurement



SPECIFICATIONS

(at +25 °C)

Parameter		H7826	H7826-01	H7826P	H7826P-01	Unit
Input voltage		+11.5 to +15.5				V
Max. input voltage		+18				V
Max. input current		40				mA
Max. output signal current		100				μ A
Max. control voltage		+1.2 (Input impedance 100 k Ω)				V
Recommended control voltage adjustment range		+0.5 to +1.1 (Input impedance 100 k Ω)				V
Effective area		$\phi 15$				mm
Spectral response		300 to 650	300 to 850	300 to 650	300 to 850	nm
Peak sensitivity wavelength		420	380	420	380	nm
Cathode	Luminous sensitivity	Min. 60 Typ. 90	80 120	60 90	80 120	μ A/lm
	Blue sensitivity index (Blue filter)	Typ. 10.5	—	10.5	—	—
	Red/White ratio	Typ. —	0.2	—	0.2	—
	Radiant sensitivity ^①	Typ. 85	49	85	49	mA/W
Anode	Luminous sensitivity ^②	Min. 10 Typ. 50	30	108	80	A/lm
	Radiant sensitivity ^{①②}	Typ. 4.7×10^4	1.3×10^4	—	—	A/W
	Dark current ^{②③}	Typ. 3 Max. 20	—	3	20	nA
	Gain ^②	Min. —	—	1.8×10^6	1×10^6	—
	Dark count ^{③④}	Typ. — Max. —	—	200 500	2000 3500	s ⁻¹
	Rise time ^②	1.5				ns
Ripple noise ^{②⑤} (peak to peak)	0.4				mV	
Settling time ^⑥	0.2				s	
Operating ambient temperature ^⑦	+5 to +45				°C	
Storage temperature ^⑦	-20 to +50				°C	
Weight	63				g	

NOTE: ① Measured at the peak sensitivity wavelength

② Control voltage = +1.0 V

③ After 30 min storage in darkness

④ Control voltage: Plateau voltage

⑤ Cable RG-174/U, Cable length 450 mm, load resistance = 1 M Ω , load capacitance = 22 pF

⑥ The time required for the output to reach a stable level following a change in the control voltage from +1.0 V to +0.5 V.

⑦ No condensation

PHOTOSENSOR MODULES H7826 SERIES

Figure 1: Typical spectral response

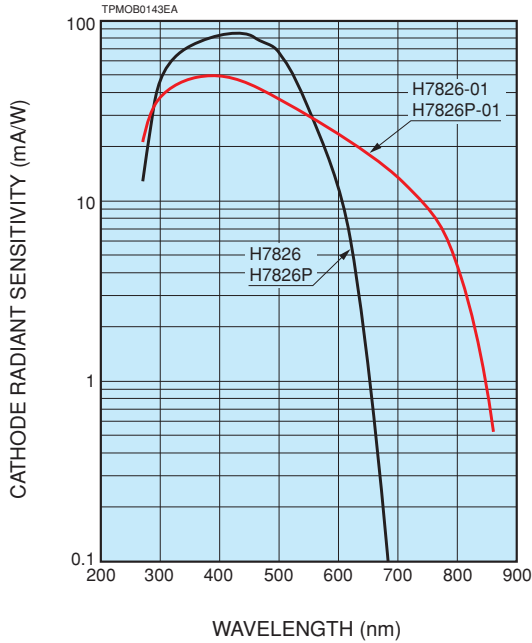


Figure 2: Gain vs. control voltage

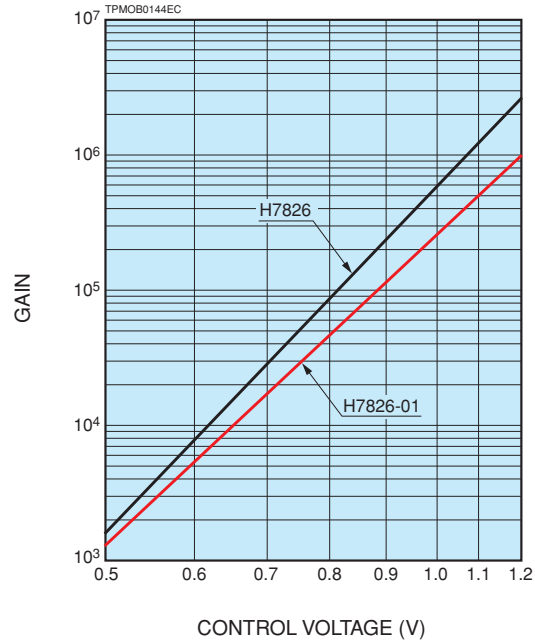


Figure 3: Sensitivity adjustment method

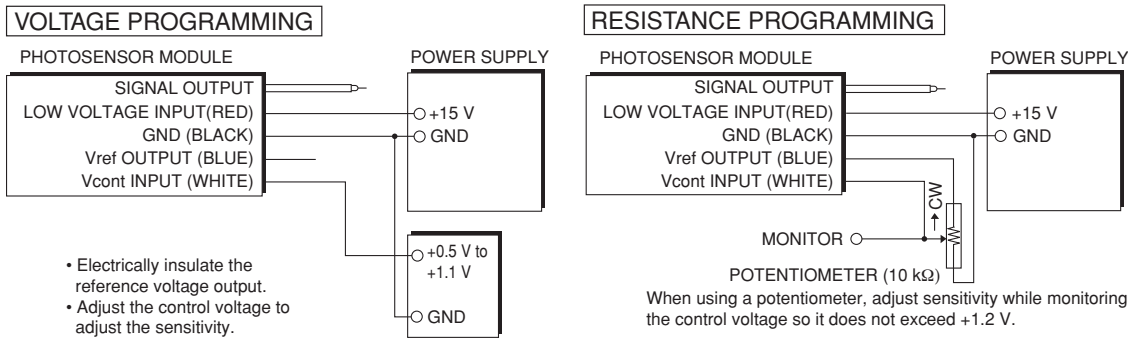
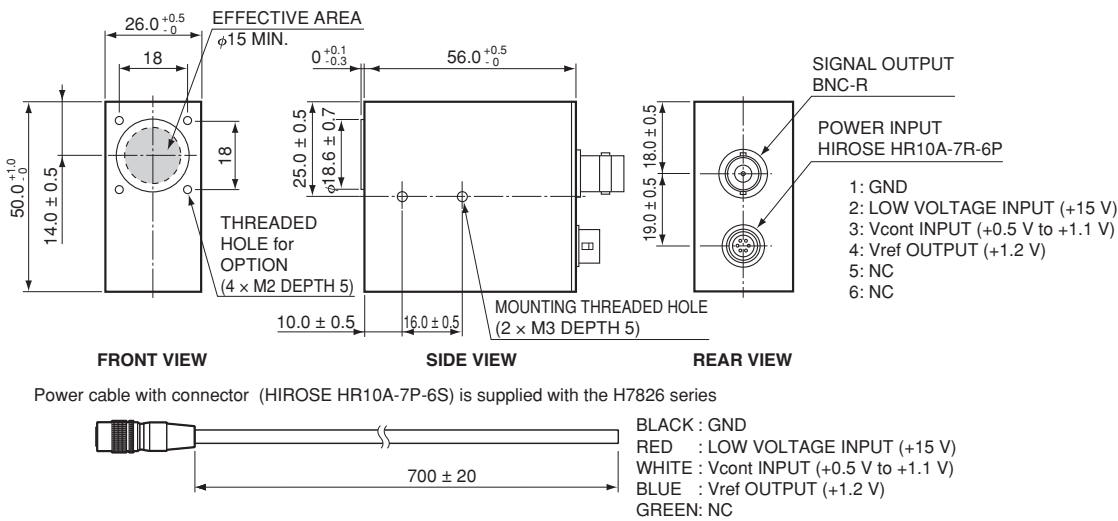


Figure 4: Dimensional outlines (Unit: mm)



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