ORDERING INFORMATION   Model : PPD

PLEASE FILL IN THIS SECTION	M-SYSTEM USE ONLY

Model	Job No.	Inspected by:
Company	Ser No. –	
Name	Sales	Inspected by:
P/O No.		

ITEM	SET VALUE	DEFAULT	COMMENTS

PULSE INPUT SETTING Adjusted with front SW and POT.
Select among A, B, C, D, H. Fill in blank sections or mark ❑ with ✔ if necessary.

❑ **A: DRY CONTACT (relay contact or open collector ON/OFF pulse)**   *Time constant

ITEM	SET VALUE	DEFAULT	COMMENTS
INPUT	❑ Dry contact ❑ Semiconductor contact	Semiconductor contact	Chattering protection filter (With 1) is automatically provided for Dry Contact.
FILTER (See next page)	❑ With 1 ❑ With 2 ❑ W/O	W/O (without)	With 1: chattering protection (10 ms*) With 2: noise protection (0.1 ms*)
THRESHOLD 1 – 8 V	V	2 V	Factory adjusted to 2 V if not otherwise specified.
HYSTERESIS 0 – 5 V	V	0.5 V	Factory adjusted to 0.5 V if not otherwise specified.

❑ **B: VOLTAGE PULSE (other than code C or D spec)**   *Time constant

ITEM	SET VALUE	DEFAULT	COMMENTS	
INPUT WAVEFORM	❑ Square ❑ Sine	Square	Other than indicated to the left: ( )	
INPUT COUPLING	❑ DC ❑ AC	DC	Specify AC coupling for pulses with large offset which does not match the threshold requirement.	
PULSE AMPLITUDE	V p-p	*MUST BE SPECIFIED*	Specify within 0.5 V p-p – 50 V p-p.	These specifications are necessary for accurate description of the pulse.
OFFSET	V	*MUST BE SPECIFIED*	≤50V	
FILTER (See next page)	❑ With 1 ❑ With 2 ❑ W/O	W/O (without)	With 1: chattering protection (10 ms*) With 2: noise protection (0.1 ms*)	
THRESHOLD 0 – 15 V	V	mid-range amplitude	Factory adjusted to the mid-range amplitude if not otherwise specified.	
HYSTERESIS 0 – 5 V	V	0.5 V or 1/3 amplitude	Factory adjusted to 0.5 V if not otherwise specified.	
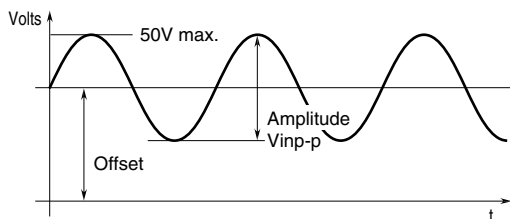
❑ **C: 5 V VOLTAGE PULSE (amplitude approx. 5 V p-p, offset half the amplitude)**   *Time constant

ITEM	SET VALUE	DEFAULT	COMMENTS
FILTER (See next page)	❑ With 1 ❑ With 2 ❑ W/O	W/O (without)	With 1: chattering protection (10 ms*) With 2: noise protection (0.1 ms*)

❑ **D: 12 V, 24 V VOLTAGE PULSE (amplitude approx. 10 V p-p – 24 V p-p, offset half the amplitude)**   *Time constant

ITEM	SET VALUE	DEFAULT	COMMENTS
FILTER (See next page)	❑ With 1 ❑ With 2 ❑ W/O	W/O (without)	With 1: chattering protection (10 ms*) With 2: noise protection (0.1 ms*)

❑ **H: 2-WIRE CURRENT PULSE**   *Time constant

ITEM	SET VALUE	DEFAULT	COMMENTS
ON CURRENT 0 – 25 mA	mA	14.5 mA	Detects as "High" at ≥ 14.5 mA (default if not otherwise specified); Receiving resistor 100Ω
OFF CURRENT 0 – 25 mA	mA	9.5 mA	Detects as "Low" at ≤ 9.5 mA (default if not otherwise specified); Receiving resistor 100Ω
FILTER (See next page)	❑ With 1 ❑ With 2 ❑ W/O	W/O (without)	With 1: chattering protection (10 ms*) With 2: noise protection (0.1 ms*)

PULSE OUTPUT SETTING Specify when one-shot output is required

PULSE WIDTH 0.030 – 300 msec.	One shot period	msec.	50 msec.	Specify within 0.030 – 300 ms.

PULSE INPUT SETTING   Choose required input-output pulse logic relation and mark ❏ with ✔.

OUTPUT WAVEFORM		INPUT WAVEFORM	VOLTAGE PULSE (B, C, D) or 2-WIRE CURRENT PULSE (H)	DRY CONTACT (A)
VOLTAGE PULSE (M, N, P)	Non Reversed	No pulse width conversion	❏	❏
		One-shot, detecting input pulse rise	❏	❏
		One-shot, detecting input pulse drop	❏	❏
	Reversed	No pulse width conversion	❏	❏
		One-shot, detecting input pulse rise	❏	❏
		One-shot, detecting input pulse drop	❏	❏
OPEN COLLECTOR or POWER PHOTO MOSFET RELAY (A, H)	Non Reversed	No pulse width conversion	❏	❏
		One-shot, detecting input pulse rise	❏	❏
		One-shot, detecting input pulse drop	❏	❏
	Reversed	No pulse width conversion	❏	❏
		One-shot, detecting input pulse rise	❏	❏
		One-shot, detecting input pulse drop	❏	❏

The pulse width in one-shot means the bold lined section of a pulse waveform.

■ INPUT FILTER

Two types of input filters are available. Both can pass low frequency band. The tables below show examples of the maximum frequency which can pass through the filter when the sensitivity level is set to 2V. The frequency may change according to the sensitivity level. Generally, when the sensitivity level is higher, higher frequency can pass through. If you use a frequency higher than shown below, choose "W/O filter". Otherwise, input signal itself may be rejected.

• Noise Filter Type 1 (chattering protection)

DC Coupling

V p-p (V)	MAX. FREQ. (Hz)
5	69
12	35
24	89

AC Coupling

V p-p (V)	MAX. FREQ. (Hz)
5	22
12	65
24	112

• Noise Filter Type 2 (noise protection)

DC Coupling

V p-p (V)	MAX. FREQ. (Hz)
5	1220
12	329
24	851

AC Coupling

V p-p (V)	MAX. FREQ. (Hz)
5	256
12	664
24	1090