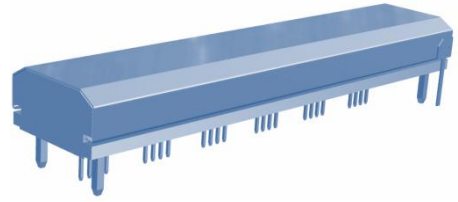


LTJ-XM-060 Series



Features

- High sensitivity and excellent gap characteristics.
- Uniform sensitivity for all channels.
- Output voltage is independent of scanning speed.
- Excellent CMRR performance due to differential design.
- Each Sensor has detection width of 60mm, without non-detection area.
- LTJ-XM-060 has 6x channels and channel width of 10mm.

Applications

- Bank note validator
- Magnetic ink document reader

Absolute parameters

Item		Value	Unit
Max. Supply Voltage	$V_a \text{ max}$	6	V
Isolation Voltage	V_I	200	V
Working Temperature	T_{opg}	-10 ~ +65	°C
Storage Temperature	T_{stg}	-30 ~ +85	°C
Working Humidity	H_{Rh}	10% ~ 90%	
ESD Level (HBM)		2	kV

Electrical specifications (Ta = 25°C)

Item		Condition	Min	Typ	Max	Unit
Supply Voltage	V_{cc}		1	5	5.5	V
Resistance	R			2		kOhm
Offset	V_d	$V_a = 5 \text{ V}$		2.5		V
Sensitivity ^③	$V_{\text{P-P}}$	$V_a = 5 \text{ V}$		1.5		mV
Noise	V_{nw}	$V_a = 5 \text{ V}$			50	uV

③ The sensitivity can be calculated by using the testing method described below (Fig. 1).

Physical parameters

Item		Part Number	Min	Typ	Max	Unit
Detection Width	W_d	LTJ-XM-060		60		mm
Surface Field ^④	H	LTJ-XM-060		750		Gs
Channel width	W_c	LTJ-XM-060		10		mm

④ The magnetic field on the surface of the sensor along the width direction.

Dimensions (LTJ-XM-060A)

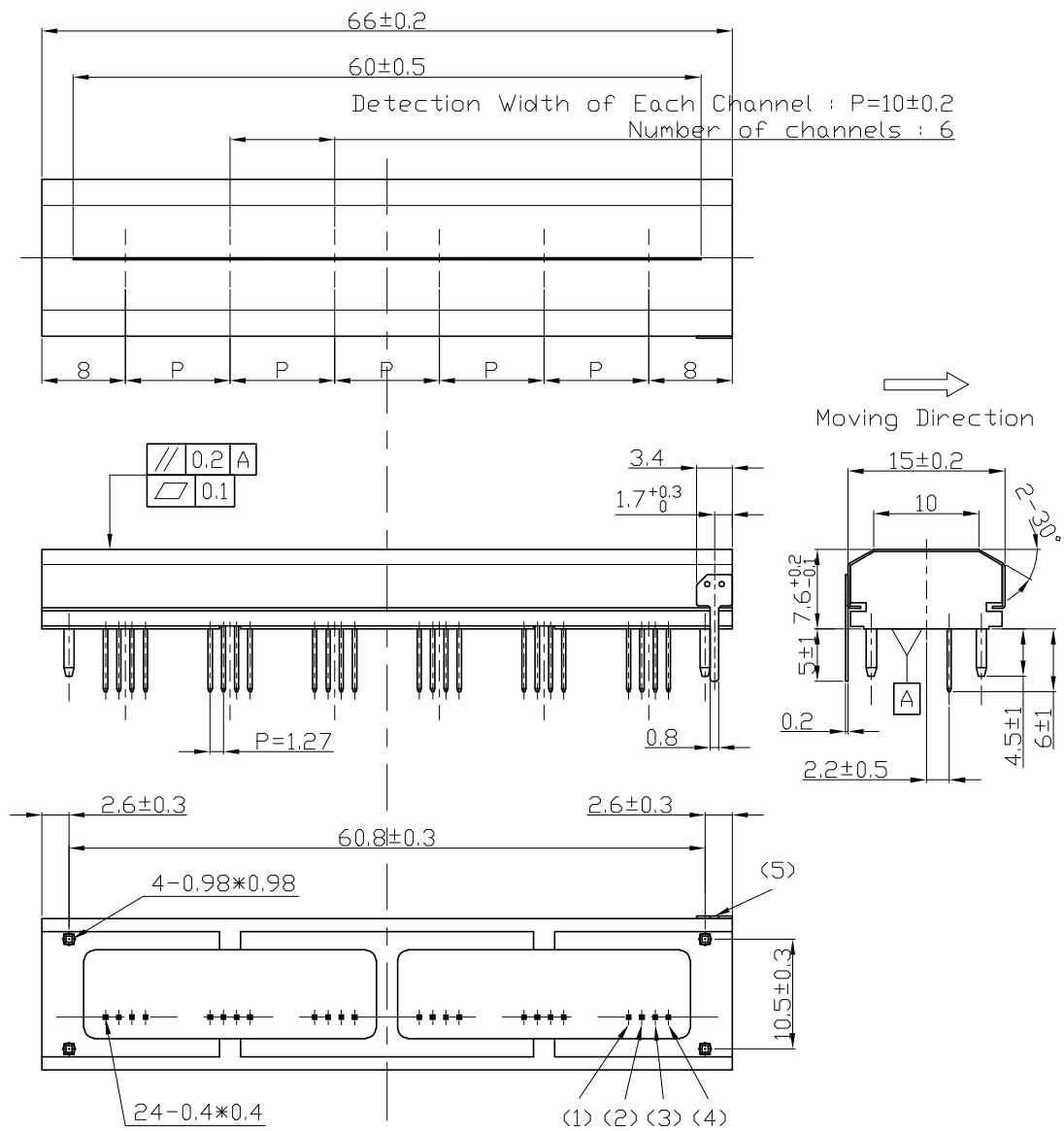


Table for wiring

Terminal No.	Wiring
(1)	S-
(2)	GND
(3)	S+
(4)	VCC
(5)	F.G

n : channel No.

Cover : Stinless steel thickness 0.2
Case : Zinc alloy
Magnet : NdFeB
Unit : mm

