

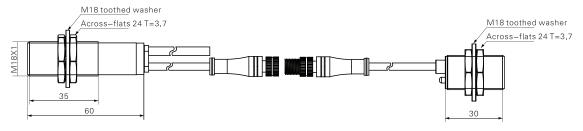
# MUD Series



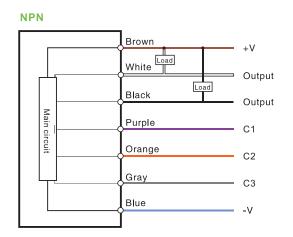
Appearance		
Sensing distance	20~40mm, 20mm ± 2mm(Optimum)	20~60mm, 40mm ± 5mm (Optimum)
Blind area	In front of the transmitter and receiver 5mm	
Angle deviation	±45° with vertical planes	
Transducer frequency	400kHz	200kHz
Operating voltage	20~30V DC, Reverse polarity protection	
Response time	The automatic operation mode is 2.5ms	The automatic operation mode is 6.5ms
Power-on delay	<750ms	<1.9s
Voltage pulsation	±10%	
No-load current	≤50mA	
Probe material	Polyurethane foam, glass filled epoxy resin	
Housing material	Copper nickel plating	
Tightening torque	15Nm	
Protection degree	IP65	
Operating temperature	+5℃~+60℃	
Storage temperature	+40℃~+85℃	
Control device	Control input: C1 to C3	
Control description	<-V+6V: Logic 1 (control input terminal –V or floating);>-V+10V: Logic 0 (control input terminal +V)	
Indicator	Green light: single sheet   Green light flashing: teaching Red light: double/multiple sheet   Red light flashing: no paper	
Output	NPN/PNP Output, Lmax=200mA(-V+2V), Short circuit protection	
Output logic	No paper status: White line OF, Black line OFF	
	Single sheet status: white line ON, black line OFF	
	Dual/multiple sheet status: white line OFF, black line ON	
Scope of application	Paper and paper of 20–1200g/m² in unit area, alloy laminates and film thickness up to 0.4mm,self-adhesive film	Paper and paper of 50–1200g/m² in unit area, alloy laminate, self–adhesive film
NPN	MUD-60N-400	MUD-60N-200
Model No.	MUD-60P-400	MUD-60P-200

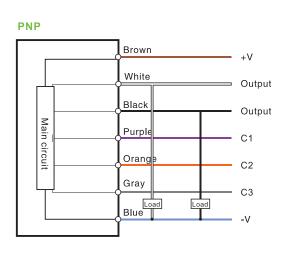
## Dimensions

Unit: mm



### Circuit Diagram

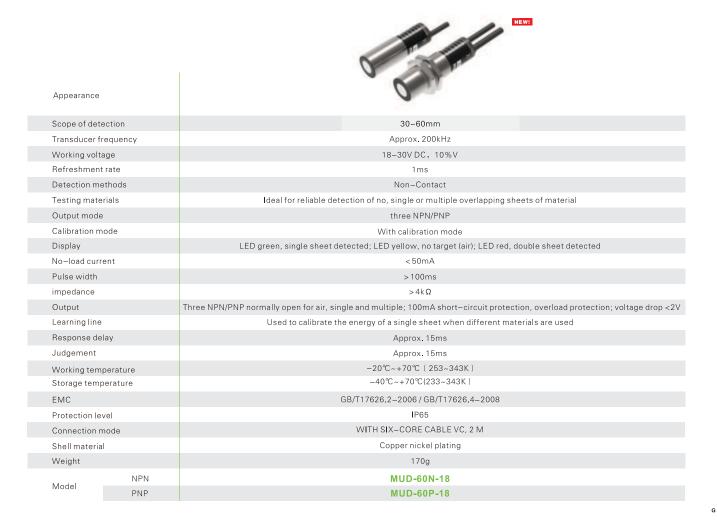






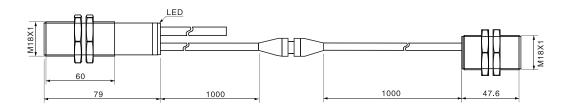


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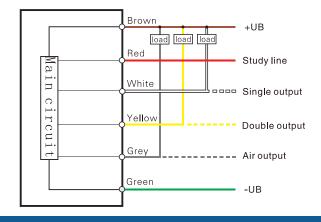


#### **Dimensions**

单位:mm



#### Circuit Diagram



U C SI FI