

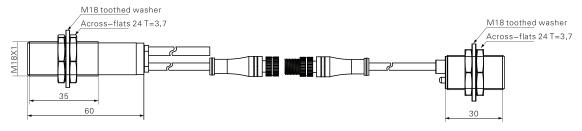
MUD Series



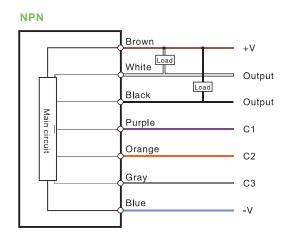
Appearance				
Sensing dista	nce	20~40mm, 20mm ± 2mm(Optimum)	20~60mm, 40mm ± 5mm (Optimum)	
Blind area		In front of the transmitter and receiver 5mm		
Angle deviation	n	±45° with vertical planes		
Transducer fre	equency	400kHz	200kHz	
Operating volt	age	20~30V DC,Reverse polarity protection		
Response tim	е	The automatic operation mode is 2.5ms	The automatic operation mode is 6.5ms	
Power-on dela	ay	<750ms	<1.9s	
Voltage pulsa	tion	±10%		
No-load curre	nt	≤50mA		
Probe materia	I	Polyurethane foam, glass filled epoxy resin		
Housing mate	rial	Copper nickel plating		
Tightening tor	que	15Nm		
Protection de	gree	IP65		
Operating tem	perature	+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	
Model No.	NPN	MUD-60N-400	MUD-60N-200	
	PNP	MUD-60P-400	MUD-60P-200	

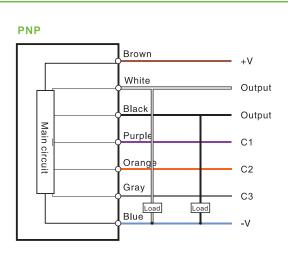
Dimensions

Unit: mm



Circuit Diagram

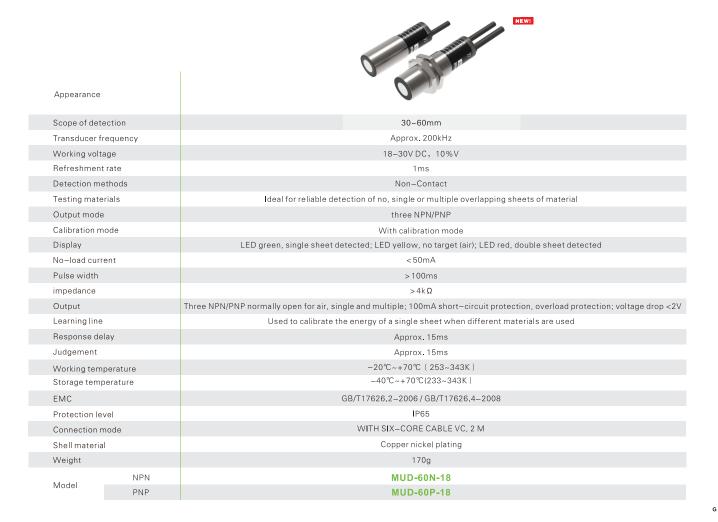






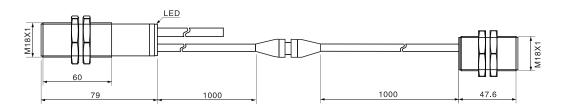


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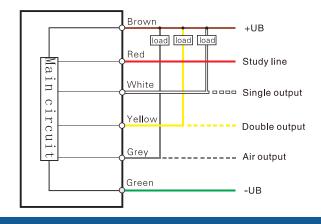


Dimensions

单位:mm



Circuit Diagram



U C SI FI