Measuring light curtain **MH20** series



Features

◆RS485 synchronous scanning technology, stronge anti interference function;

◆Various detection height, from 300mm to 2220mm;

◆Optic axis distance:20mm;

◆Dual switch control with two-way switch value and RS485 output;

◆Faul+alarm and fault diagnosis function.

Part number

Axis number	16 axises	32 axises	48 axises	64 axises	80 axises
Emitter	MH20-T1605L-F2	MH20-T3205L-F2	MH20-T4805L-F2	MH20-T6405L-F2	MH20-T8005L-F2
Receiver	MH20-T1605LS1DA-F8	MH20-T3205LS1DA-F8	MH20-T4805LS1DA-F8	MH20-T6405LS1DA-F8	MH20-T8005LS1DA-F8
Detection area	300mm	620mm	940mm	1260mm	1580mm
Response time	5ms	10ms	15ms	18ms	19ms

Axis number	96 axises	112 axises
Emitter	MH20-T9605L-F2	MH20-T11205L-F2
Receiver	MH20-T9605LS1DA-F8	MH20-T11205LS1DA-F8
Detection area	1900mm	2200mm
Response time	20ms	24ms

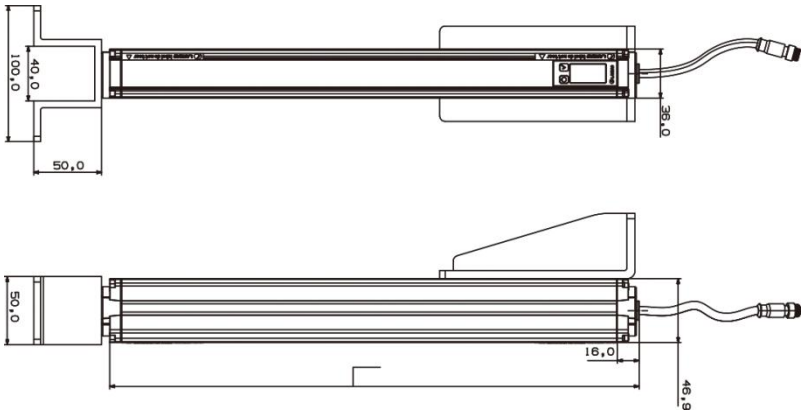
Technical specifications

Sensing distance	0~5m	Current consumption	＜130mA@16 axis@30VDC
Axis distance	20mm	Scanning mode	Parallel light
Sensing target	Φ30mm opaque object	Operating temperature	-25℃…+55℃
Light source	Infrared light (850nm)	Ambient humidity	35%…95%RH
Output 1	NPN/PNP, NO/NC settable*	Output indicator	OLED indicator LED indicator
Output 2	RS485	Insulation resistance	≥50MΩ
Supply voltage	DC 15…30V	Impact resistance	15g, 16ms, 1000 times for each X, Y, Z axis
Leakage current	＜0.1mA@30VDC	Protection degree	IP65
Voltage drop	＜1.5V@Ie=200mA	Housing material	Aluminium alloy
Synchronization mode	Line synchronization		
Load current	≤200mA (Receiver)		
Anti ambient light interference	50,000lx(incidence angle≥5°)		
Connection	Emitter: M12 4 pins connector+20cm cable; Receiver: M12 8 pins connector+20cm cable		
Protection circuit	Short circuit protection, Zener protection, surge protection and reverse polarity protection		
Impulse Withstand Voltage Test	Peak voltage 1000V, last for 50us, 3 times		
Vibration resistance	Frequency: 10…55Hz, amplitude: 0.5mm (2h per X,Y,Z direction)		
Accessory	Mounting bracket × 2, 8-core shielded wire × 1 (3m), 4-core shielded wire × 1 (15m)		

*Set by RS485 command

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Dimensions



Light curtain line sequence definition



Male

1 - Brown	Power+
2 - White	Output (NPN, PNP or NO, NC are configurable)
3 - Blue	Power-
4 - Black	Output (NPN, PNP or NO, NC are configurable)
5 - Grey	Synchronizing signal+ (synchronizing signal+ with emitter)
6 - Pink	Synchronizing signal- (synchronizing signal- with emitter)
7 - Purple	RS485A
8 - Orange	RS485B



Male

1 - Brown	Power+
2 - White	Synchronizing signal+ (synchronizing signal+ with receiver)
3 - Blue	Power-
4 - Black	Synchronizing signal- (synchronizing signal- with receiver)