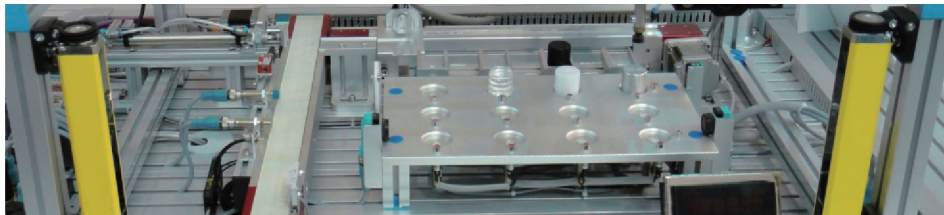


SENSORS

LIGHT CURTAINS



- Synchronous scanning ensures safety and reliability.
- Various protection heights optional.
- Multi resolution optional: 14mm, 20mm, 25mm, 30mm, 40mm.
- Protecting human body from being hurt by dangerous machines, such as folding shear machine, paper cutter and punching machine etc.

NAMING RULES

L **G** **20** **□-T** **08** **05** **T** **NA-F2** **□□□□**
1 **2** **3** **4** **5** **6** **7** **8** **9** **10** **11**

1. TYPE CODE

L: AREA LIGHT CURTAINS
S: SAFETY LIGHT CURTAINS
M: MEASURING LIGHT CURTAINS

2. SHAPE CODE

C: 38*38mm
G: 26*26mm
H: 47*36mm

3. OPTIC AXIS DISTANCE

Eg: 20*20mm

4. BEAM TYPE

LIGHT CURTAIN WITH PARALLEL BEAMS

5. DETECT MODE

THROUGH BEAM REFLECTION

6. OPTIC AXIS NUMBER

04: 04 AXISES **08:** 08 AXISES
24: 24 AXISES

7. SENSING DISTANCE

02:2m; 03:3m....

8. SUPPLY

T: 12...24VDC **D:** 10...30VDC
L: 15...30VDC

9. OUTPUT STATUS

N/A: EMITTER
U: VOLTAGE OUTPUT 0...10V
U1: VOLTAGE OUTPUT 0...5V
I: CURRENT OUTPUT 0...20mA
IU: VOLTAGE + CURRENT OUTPUT 0...10V, 0...20mA
NO: RECEIVER NPN NO OUTPUT
NC: RECEIVER NPN NC OUTPUT
PO: RECEIVER PNP NO OUTPUT
PC: RECEIVER PNP NC OUTPUT

AO: RECEIVER NPN+NPN NO OUTPUT
AC: RECEIVER NPN+NPN NC OUTPUT
BO: RECEIVER PNP+PNP NO OUTPUT
BC: RECEIVER PNP+PNP NC OUTPUT

10. CONNECTION

N/A: CABLE: 2m
3M: CABLE: 3m
E2: M12 PLUG 4PIN
E3: M8 PLUG 4PIN
E5: M12 PLUG 4PIN
E8: M12 PLUG 8PIN
F2: M12 PLUG 4PIN WITH CABLE

11. SPECIAL REQUIREMENT

IN 4 DIGITS

LIGHT CURTAINS



- Ultra long detection range.
- Various series and specifications optional, detection range from 120 1920mm.
- Products with self-check function, be able to detect internal exceptions.
- Strong intensity LED indicates operation status.

Axes quantity	8Axes	12Axes	16Axes	20Axes	24Axes	28Axes	32Axes
Emitter	LG20-T0805T-F2	LG20-T1205T-F2	LG20-T1605T-F2	LG20-T2005T-F2	LG20-T2405T-F2	LG20-T2805T-F2	LG20-T3205T-F2
NPN NO/NC	LG20-T0805TNA-F2	LG20-T1205TNA-F2	LG20-T1605TNA-F2	LG20-T2005TNA-F2	LG20-T2405TNA-F2	LG20-T2805TNA-F2	LG20-T3205TNA-F2
PNP NO/NC	LG20-T0805TPA-F2	LG20-T1205TPA-F2	LG20-T1605TPA-F2	LG20-T2005TPA-F2	LG20-T2405TPA-F2	LG20-T2805TPA-F2	LG20-T3205TPA-F2
Protection height	140mm	220mm	300mm	380mm	460mm	540mm	620mm
Response time	<10ms	<15ms	<20ms	<25ms	<30ms	<35ms	<40ms
Axes quantity	36Axes	40Axes	44Axes	48Axes			
Emitter	LG20-T3605T-F2	LG20-T4005T-F2	LG20-T4405T-F2	LG20-T4805T-F2			
NPN NO/NC	LG20-T3605TNA-F2	LG20-T4005TNA-F2	LG20-T4405TNA-F2	LG20-T4805TNA-F2			
PNP NO/NC	LG20-T3605TPA-F2	LG20-T4005TPA-F2	LG20-T4405TPA-F2	LG20-T4805TPA-F2			
Protection height	700mm	780mm	860mm	940mm			
Response time	<45ms	<50ms	<55ms	<60ms			
Detection width	0.5...5m						
Axis distance	20mm						
Sensing object	Φ30mm						
Power voltage	12...24 VDC±10%						
Current consumption	Emitter: < 60mA(Current consumption has nothing to do with the number of axes) Receiver: < 45mA(8 axes, current consumption will increase 5mA when 8 axes increased)						
Light source	850nm Infrared (modulate)						
Circuit protection	Reverse polarity, short-circuit protection, overload protection						
Ambient temperature	-10°C...55°C(dewed or iced forbidden), storage: -10°C...60°C						
Ambient humidity	35...85%RH, storage:35...85%RH						
Intensity of illumination	Incandescent lamp: intensity of illumination 4,000lux						
Anti-vibration	10...55Hz,amplitude:1.2mm,2 hours each for x, y and z direction						
Anti-shocking	Acceleration:500m/s²(approx:50G),3 times each for x, y and z direction						
Protection degree	IP65						
Housing material	Housing: AL; Light cover: PC; End cover: enhanced nylon						
Connection	18cm cable with M12 connector						
Accessory	5m Connection cable(QE12-N4F5, QE12-N3F5)						

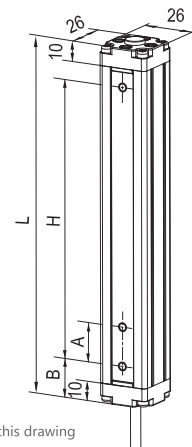
Datasheets

Item code	A	B	H	L
LG20-T0805T/TxA-F2	20	20	140	180
LG20-T1205T/TxA-F2	20	20	220	260
LG20-T1605T/TxA-F2	20	20	300	340
LG20-T2005T/TxA-F2	20	20	380	420
LG20-T2405T/TxA-F2	20	20	460	500
LG20-T2805T/TxA-F2	20	20	540	580
LG20-T3205T/TxA-F2	20	20	620	660
LG20-T3605T/TxA-F2	20	20	700	740
LG20-T4005T/TxA-F2	20	20	780	820
LG20-T4405T/TxA-F2	20	20	860	900
LG20-T4805T/TxA-F2	20	20	940	980

H: Protection height, H=A* (N-1)
A : Axis distance, 20mm

L: Total height: L=H+40mm
N: Optic axis quantity

Dimensions



Note: Dimension of LG20, LG40 also refers to this drawing

Area light curtains

Axes quantity	4Axes	6Axes	8Axes	10Axes	12Axes	14Axes	16Axes
Emitter	LG40-T0405T-F2	LG40-T0605T-F2	LG40-T0805T-F2	LG40-T1005T-F2	LG40-T1205T-F2	LG40-T1405T-F2	LG40-T1605T-F2
NPN NO/NC	LG40-T0405TNA-F2	LG40-T0605TNA-F2	LG40-T0805TNA-F2	LG40-T1005TNA-F2	LG40-T1205TNA-F2	LG40-T1405TNA-F2	LG40-T1605TNA-F2
PNP NO/NC	LG40-T0405TPA-F2	LG40-T0605TPA-F2	LG40-T0805TPA-F2	LG40-T1005TPA-F2	LG40-T1205TPA-F2	LG40-T1405TPA-F2	LG40-T1605TPA-F2
Protection height	120mm	200mm	280mm	360mm	440mm	520mm	600mm
Response time	< 5ms	< 10ms	< 15ms	< 20ms	< 25ms	< 30ms	< 35ms
Axes quantity	18Axes	20Axes	22Axes	24Axes	26Axes	28Axes	30Axes
Emitter	LG40-T1805T-F2	LG40-T2005T-F2	LG40-T2205T-F2	LG40-T2405T-F2	LG40-T2605T-F2	LG40-T2805T-F2	LG40-T3005T-F2
NPN NO/NC	LG40-T1805TNA-F2	LG40-T2005TNA-F2	LG40-T2205TNA-F2	LG40-T2405TNA-F2	LG40-T2605TNA-F2	LG40-T2805TNA-F2	LG40-T3005TNA-F2
PNP NO/NC	LG40-T1805TPA-F2	LG40-T2005TPA-F2	LG40-T2205TPA-F2	LG40-T2405TPA-F2	LG40-T2605TPA-F2	LG40-T2805TPA-F2	LG40-T3005TPA-F2
Protection height	680mm	760mm	840mm	920mm	1000mm	1080mm	1160mm
Response time	< 40ms	< 45ms	< 50ms	< 55ms	< 60ms	< 65ms	< 70ms
Axes quantity	32Axes	34Axes	36Axes	38Axes	40Axes	42Axes	44Axes
Emitter	LG40-T3205T-F2	LG40-T3405T-F2	LG40-T3605T-F2	LG40-T3805T-F2	LG40-T4005T-F2	LG40-T4205T-F2	LG40-T4405T-F2
NPN NO/NC	LG40-T3205TNA-F2	LG40-T3405TNA-F2	LG40-T3605TNA-F2	LG40-T3805TNA-F2	LG40-T4005TNA-F2	LG40-T4205TNA-F2	LG40-T4405TNA-F2
PNP NO/NC	LG40-T3205TPA-F2	LG40-T3405TPA-F2	LG40-T3605TPA-F2	LG40-T3805TPA-F2	LG40-T4005TPA-F2	LG40-T4205TPA-F2	LG40-T4405TPA-F2
Protection height	1240mm	1320mm	1400mm	1480mm	1560mm	1640mm	1720mm
Response time	< 75ms	< 80ms	< 85ms	< 90ms	< 95ms	< 100ms	< 105ms
Axes quantity	46Axes	48Axes					
Emitter	LG40-T4605T-F2	LG40-T4805T-F2					
NPN NO/NC	LG40-T4605TNA-F2	LG40-T4805TNA-F2					
PNP NO/NC	LG40-T4605TPA-F2	LG40-T4805TPA-F2					
Protection height	1840mm	1920mm					
Response time	< 110ms	< 115ms					
Detection width	0.5...5m						
Axis distance	40mm						
Sensing object	Φ60mm						
Power voltage	12...24 VDC±10%						
Current consumption	Emitter: < 60mA(Current consumption has nothing to do with the number of axes) Receiver: < 45mA(8 axes, current consumption will increase 5mA when 8 axes increased)						
Light source	850nm Infrared (modulate)						
Circuit protection	Reverse polarity, short-circuit protection, overload protection						
Ambient temperature	-10°C...55°C(dewed or iced forbidden), storage: -10°C...60°C						
Ambient humidity	35...85%RH, storage:35...85%RH						
Intensity of illumination	Incandescent lamp: intensity of illumination 4,000lux						
Anti-vibration	10...55Hz,amplitude:1.2mm,2 hours each for x, y and z direction						
Anti-shocking	Acceleration:500m/s²(approx:50G),3 times each for x, y and z direction						
Protection degree	IP65						
Housing material	Housing: AL; Light cover: PC; End cover: enhanced nylon						
Connection	18cm cable with M12 connector						
Accessory	5m Connection cable(QE12-N4F5, QE12-N3F5)						

Datasheets

Item code	A	B	H	L
LG40-T0405T/TxA-F2	40	20	120	160
LG40-T0605T/TxA-F2	40	20	200	240
LG40-T0805T/TxA-F2	40	20	280	320
LG40-T1005T/TxA-F2	40	20	360	400
LG40-T1205T/TxA-F2	40	20	440	480
LG40-T1405T/TxA-F2	40	20	520	560
LG40-T1605T/TxA-F2	40	20	600	640
LG40-T1805T/TxA-F2	40	20	680	720
LG40-T2005T/TxA-F2	40	20	760	800
LG40-T2205T/TxA-F2	40	20	840	880
LG40-T2405T/TxA-F2	40	20	920	960
LG40-T2605T/TxA-F2	40	20	1000	1040

Item code	A	B	H	L
LG40-T2805T/TxA-F2	40	20	1080	1120
LG40-T3005T/TxA-F2	40	20	1160	1200
LG40-T3205T/TxA-F2	40	20	1240	1280
LG40-T3405T/TxA-F2	40	20	1320	1360
LG40-T3605T/TxA-F2	40	20	1400	1440
LG40-T3805T/TxA-F2	40	20	1480	1520
LG40-T4005T/TxA-F2	40	20	1560	1600
LG40-T4205T/TxA-F2	40	20	1640	1680
LG40-T4405T/TxA-F2	40	20	1720	1760
LG40-T4605T/TxA-F2	40	20	1800	1840
LG40-T4805T/TxA-F2	40	20	1880	1920

MEASURING LIGHT CURTAINS



- RS485 synchronous scanning technology, strong 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.

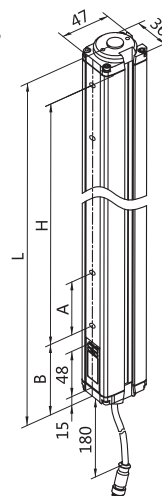
Axes quantity	16Axes	32Axes	48Axes	64Axes
Emitter	MH20-T1605L-F2	MH20-T3205L-F2	MH20-T4805L-F2	MH20-T6405L-F2
Receiver	MH20-T1605LS1DA-F8	MH20-T3205LS1DA-F8	MH20-T4805LS1DA-F8	MH20-T6405LS1DA-F8
Protection height	300mm	620mm	940mm	1260mm
Response time	5ms	10ms	15ms	18ms
Axes quantity	80Axes	96Axes	112Axes	
Emitter	MH20-T8005L-F2	MH20-T9605L-F2	MH20-T11205L-F2	
Receiver	MH20-T8005LS1DA-F8	MH20-T9605LS1DA-F8	MH20-T11205LS1DA-F8	
Protection height	1580mm	1900mm	2220mm	
Response time	19ms	20ms	24ms	
Detection width	0...5m			
Axis distance	20mm			
Sensing object	Φ30mm			
Output	NPN/PNP、NC/NO +RS485			
Supply voltage	15...30 VDC			
Current consumption	< 130mA@16axes@30VDC			
Light source	Infrared LED(modulate)			
Circuit protection	Short circuit, zener, surge protection, reverse polarity protection			
Ambient temperature	-25°C...55°C(dewed or iced forbidden), storage: -30°C...75°C			
Ambient humidity	35...95%RH			
Intensity of illumination	Incandescent lamp: intensity of illumination > 5,000lux			
Anti-vibration	10...55Hz, amplitude: 0.5mm, 2 hours each for x, y and z direction			
Anti-shocking	Acceleration: 300m/s²(approx:30G), 3 times each for x, y and z direction			
Protection	IP67			
Housing material	Housing: AL; Light cover: PC; End cover: AL			
Connection	Emitter: M12 connector 4 pin, receiver: M12 connector 8 pin			
Accessory	Shielding wire(8 pin) 1 pc (standard length 3m), Shielding wire(4 pin) 1 pc (standard length 15m)			

Datasheets

Item code	A	B	H	L
MH20-T1605LS1DA-F8	20	70.2	300	363
MH20-T3205LS1DA-F8	20	70.2	620	683
MH20-T4805LS1DA-F8	20	70.2	940	1003
MH20-T6405LS1DA-F8	20	70.2	1260	1323
MH20-T8005LS1DA-F8	20	70.2	1580	1643
MH20-T9605LS1DA-F8	20	70.2	1900	1963
MH20-T11205LS1DA-F8	20	70.2	2220	2283

H:Protection height, H=20*(N-1)mm
 N:Optic axis quantity
 L:Total length:L=H+63mm

Dimensions



MEASURING LIGHT CURTAINS



- RS485 synchronous scanning technology, strong anti interference function.
- Various detection height, from 280mm to 2220mm.
- Optic axis distance:40mm.
- Dual switch control with two-way switch value and RS485 output.
- Fault+alarm and fault diagnosis function.

Axes quantity	8Axes	16Axes	24Axes	32Axes
Emitter	MH40-T0805L-F2	MH40-T1605L-F2	MH40-T2405L-F2	MH40-T3205L-F2
Receiver	MH40-T0805LS1DA-F8	MH40-T1605LS1DA-F8	MH40-T2405LS1DA-F8	MH40-T3205LS1DA-F8
Protection height	280mm	600mm	920mm	1260mm
Response time	5ms	10ms	15ms	18ms
Axes quantity	40Axes	48Axes	56Axes	
Emitter	MH40-T4005L-F2	MH40-T4805L-F2	MH40-T5605L-F2	
Receiver	MH40-T4005LS1DA-F8	MH40-T4805LS1DA-F8	MH40-T5605LS1DA-F8	
Protection height	1560mm	1880mm	2200mm	
Response time	19ms	20ms	24ms	
Detection width	0...5m			
Axis distance	40mm			
Sensing object	Φ30mm			
Output	NPN/PNP、NC/NO +RS485			
Supply voltage	15...30 VDC			
Current consumption	< 130mA@16axes@30VDC			
Light source	Infrared LED(modulate)			
Circuit protection	Short circuit, zener, surge protection, reverse polarity protection			
Ambient temperature	-25°C...55°C(dewed or iced forbidden), storage: -30°C...75°C			
Ambient humidity	35...95%RH			
Intensity of illumination	Incandescent lamp: intensity of illumination > 5,000lux			
Anti-vibration	10...55Hz, amplitude: 0.5mm, 2 hours each for x, y and z direction			
Anti-shocking	Acceleration: 300m/s²(approx:30G), 3 times each for x, y and z direction			
Protection	IP67			
Housing material	Housing: AL; Light cover: PC; End cover: AL			
Connection	Emitter: M12 connector 4 pin, receiver: M12 connector 8 pin			
Accessory	Shielding wire(8 pin) 1 pc (standard length 3m), Shielding wire(4 pin) 1 pc (standard length 15m)			

Datasheets

Item code	A	B	H	L
MH40-T0805LS1DA-F8	40	70.2	280	363
MH40-T1605LS1DA-F8	40	70.2	600	683
MH40-T2405LS1DA-F8	40	70.2	920	1003
MH40-T3205LS1DA-F8	40	70.2	1240	1323
MH40-T4005LS1DA-F8	40	70.2	1560	1643
MH40-T4805LS1DA-F8	40	70.2	1880	1963
MH40-T5605LS1DA-F8	40	70.2	2200	2283

H:Protection height, H=20*(N-1)mm
 N:Optic axis quantity

L:Total length:L=H+83mm

Dimensions

