

Area light curtain sensor **LG20** series

**Feature description:**

- ◆ Long detection distance;
- ◆ Serialized, multi-specification products. Detection height from 140 to 940mm;
- ◆ Equipped with self-check function that can automatically detect internal abnormalities of products and synchronize abnormalities;
- ◆ High-brightness action indicator makes product working status easy to identify;
- ◆ High specification protection level, adapt to various environments.

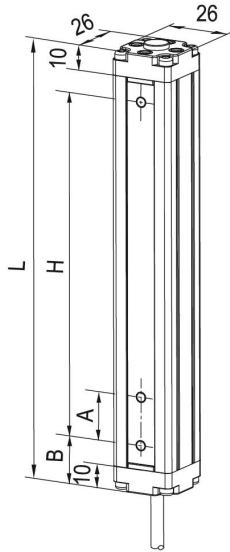
**Model specification**

Number of optical axes	8 Axis	12 Axis	16 Axis	20 Axis	24 Axis
Emitter	LG20-T0805T-F2	LG20-T1205T-F2	LG20-T1605T-F2	LG20-T2005T-F2	LG20-T2405T-F2
NPN NO/NC	LG20-T0805TNA-F2	LG20-T1205TNA-F2	LG20-T1605TNA-F2	LG20-T2005TNA-F2	LG20-T2405TNA-F2
PNP NO/NC	LG20-T0805TPA-F2	LG20-T1205TPA-F2	LG20-T1605TPA-F2	LG20-T2005TPA-F2	LG20-T2405TPA-F2
Protection height	140mm	220mm	300mm	380mm	460mm
Response time	< 10ms	< 15ms	< 20ms	< 25ms	< 30ms
Number of optical axes	28 Axis	32 Axis	36 Axis	40 Axis	44 Axis
Emitter	LG20-T2805T-F2	LG20-T3205T-F2	LG20-T3605T-F2	LG20-T4005T-F2	LG20-T4405T-F2
NPN NO/NC	LG20-T2805TNA-F2	LG20-T3205TNA-F2	LG20-T3605TNA-F2	LG20-T4005TNA-F2	LG20-T4405TNA-F2
PNP NO/NC	LG20-T2805TPA-F2	LG20-T3205TPA-F2	LG20-T3605TPA-F2	LG20-T4005TPA-F2	LG20-T4405TPA-F2
Protection height	540mm	540mm	700mm	780mm	860mm
Response time	< 35ms	< 35ms	< 45ms	< 50ms	< 55ms
Number of optical axes	48 Axis				
Emitter	LG20-T4805T-F2				
NPN NO/NC	LG20-T4805TNA-F2				
PNP NO/NC	LG20-T4805TPA-F2				
Protection height	940mm				
Response time	< 60ms				

**Specifications**

Detection distance	0.5~5m	Ambient illumination	Incandescent:Receiving surface illumination 4,000lx
Optical axis distance	20mm	Shock proof	Acceleration:500m/s <sup>2</sup> (about 50G)
Detecting objects	Φ30mm Above opaque objects		X, Y, Z three times each
Supply voltage	12...24V DC±10%	Protection degree	IP65
light source	850nm Infrared light (modulation)	Material	Housing:Aluminum alloy;transparent cover: PC;
Protect the circuit	Short circuit protection, overload protection,		end cap: reinforced nylon
	reverse polarity protection	Connection type	leading wire 18cm Match M12 Connector
Ambient humidity	35%...85%RH,Storage:35%...85%RH(No condensation)	Accessories	leading wire 5m Busbar (QE12-N4F5, QE12-N3F5)
Ambient temperature	-10°C~+55°C(Be careful not to dew or freeze), Storage:-10°C~+60°C		
Consumption current	Emitter: < 60mA (The consumed current is independent of the number of axes); Receiver: < 45mA (8 axes, each current consumption increases by 5mA)		
Vibration resistance	10Hz...55Hz, Double amplitude:1.2mm(2 hours each in X, Y, and Z directions)		

### Dimensions



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

### Wiring diagram



- |         |                          |          |                          |
|---------|--------------------------|----------|--------------------------|
| receive | 1 - Brown Power supply + | Transmit | 1 - Brown Power supply + |
|         | 2 - white Output Line    |          | 3 - blue Power supply -  |
|         | 3 - blue Power supply -  |          | 4 - black Sync line      |
|         | 4 - black Sync line      |          |                          |