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。

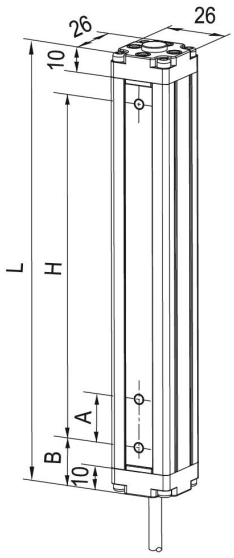
Model specification

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/s² (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℃~+55℃(Be careful not to dew or freeze)，Storage:-10℃~+60℃		
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)		

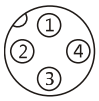
Dimensions



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) L: Total height: L=H+40mm
A : Axis distance, 20mm N: Optic axis quantity

Wiring diagram



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