Area light curtain sensor **LG40** 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（IP65）。

Model specification

Number of optical axes	4 Axis	6 Axis	8 Axis	10 Axis	12 Axis
Emitter	LG40-T0405T-F2	LG40-T0605T-F2	LG40-T0805T-F2	LG40-T1005T-F2	LG40-T1205T-F2
NPN NO/NC	LG40-T0405TNA-F2	LG40-T0605TNA-F2	LG40-T0805TNA-F2	LG40-T1005TNA-F2	LG40-T1205TNA-F2
PNP NO/NC	LG40-T0405TPA-F2	LG40-T0605TPA-F2	LG40-T0805TPA-F2	LG40-T1005TPA-F2	LG40-T1205TPA-F2
Protection height	120mm	200mm	280mm	360mm	440mm
Response time	< 10ms	< 10ms	< 15ms	< 20ms	< 25ms

Number of optical axes	14 Axis	16 Axis	18 Axis	20 Axis	22 Axis
Emitter	LG40-T1405T-F2	LG40-T1605T-F2	LG40-T1805T-F2	LG40-T2005T-F2	LG40-T2205T-F2
NPN NO/NC	LG40-T1405TNA-F2	LG40-T1605TNA-F2	LG40-T1805TNA-F2	LG40-T2005TNA-F2	LG40-T2205TNA-F2
PNP NO/NC	LG40-T1405TPA-F2	LG40-T1605TPA-F2	LG40-T1805TPA-F2	LG40-T2005TPA-F2	LG40-T2205TPA-F2
Protection height	520mm	600mm	680mm	760mm	840mm
Response time	< 30ms	< 35ms	< 40ms	< 45ms	< 50ms

Number of optical axes	24 Axis	26 Axis	28 Axis	30 Axis	32 Axis
Emitter	LG40-T2405T-F2	LG40-T2605T-F2	LG40-T2805T-F2	LG40-T3005T-F2	LG40-T3205T-F2
NPN NO/NC	LG40-T2405TNA-F2	LG40-T2605TNA-F2	LG40-T2805TNA-F2	LG40-T3005TNA-F2	LG40-T3205TNA-F2
PNPNO/NC	LG40-T2405TPA-F2	LG40-T2605TPA-F2	LG40-T2805TPA-F2	LG40-T3005TPA-F2	LG40-T3205TPA-F2
Protection height	920mm	1000mm	1080mm	1160mm	1240mm
Response time	< 55ms	< 60ms	< 65ms	< 70ms	< 75ms

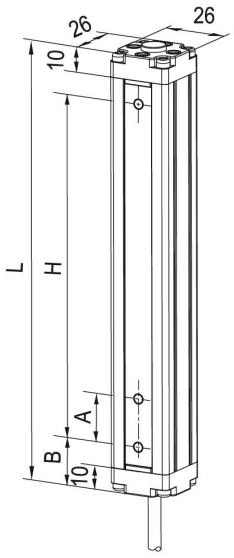
Number of optical axes	34 Axis	36 Axis	38 Axis	40 Axis	42 Axis
Emitter	LG40-T3405T-F2	LG40-T3605T-F2	LG40-T3805T-F2	LG40-T4005T-F2	LG40-T4205T-F2
NPN NO/NC	LG40-T3405TNA-F2	LG40-T3605TNA-F2	LG40-T3805TNA-F2	LG40-T4005TNA-F2	LG40-T4205TNA-F2
PNP NO/NC	LG40-T3405TPA-F2	LG40-T3605TPA-F2	LG40-T3805TPA-F2	LG40-T4005TPA-F2	LG40-T4205TPA-F2
Protection height	1320mm	1400mm	1480mm	1560mm	1640mm
Response time	< 80ms	< 85ms	< 90ms	< 95ms	< 100ms

Number of optical axes	44 Axis	46 Axis	48 Axis
Emitter	LG40-T4405T-F2	LG40-T4605T-F2	LG40-T4805T-F2
NPN NO/NC	LG40-T4405TNA-F2	LG40-T4605TNA-F2	LG40-T4805TNA-F2
PNP NO/NC	LG40-T4405TPA-F2	LG40-T4605TPA-F2	LG40-T4805TPA-F2
Protection height	1720mm	1880mm	1880mm
Response time	< 105ms	< 110ms	< 115ms

Specifications

Detection distance	0.5~5m	Ambient illumination	Incandescent:Receiving surface illumination 4,000lx
Optical axis distance	40mm	Shock proof	Acceleration:500m/s² (about 50G)
Detecting objects	Φ60mm 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	
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)		

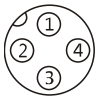
Dimensions



Item code	A	B	H	L
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
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

H: Protection height, H=A* (N-1) L: Total height: L=H+40mm
A : Axis distance 40mm N: Optic axis quantity

Wiring diagram



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

Transmit
1 - Brown Power supply +
3 - blue Power supply -
4 - black Sync line