

Датчики световой завесы LG40/LG20

Технические характеристики

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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).

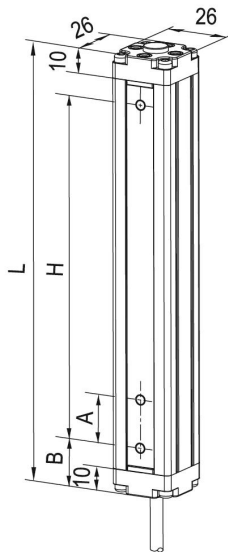
Model specification

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
PNP NO/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/s ² (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, reverse polarity protection		end cap: reinforced nylon
Ambient humidity	35%~85%RH,Storage:35%~85%RH(No condensation)	Connection type	leading wire 18cm Match M12 Connector
Ambient temperature	-10°C~+55°C(Be careful not to dew or freeze), Storage:-10°C~+60°C	Accessories	
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-T040ST/TxA-F2	40	20	120	160
LG40-T060ST/TxA-F2	40	20	200	240
LG40-T080ST/TxA-F2	40	20	280	320
LG40-T100ST/TxA-F2	40	20	360	400
LG40-T120ST/TxA-F2	40	20	440	480
LG40-T140ST/TxA-F2	40	20	520	560
LG40-T160ST/TxA-F2	40	20	600	640
LG40-T180ST/TxA-F2	40	20	680	720
LG40-T200ST/TxA-F2	40	20	760	800
LG40-T220ST/TxA-F2	40	20	840	880
LG40-T240ST/TxA-F2	40	20	920	960
LG40-T260ST/TxA-F2	40	20	1000	1040
LG40-T280ST/TxA-F2	40	20	1080	1120
LG40-T300ST/TxA-F2	40	20	1160	1200
LG40-T320ST/TxA-F2	40	20	1240	1280
LG40-T340ST/TxA-F2	40	20	1320	1360
LG40-T360ST/TxA-F2	40	20	1400	1440
LG40-T380ST/TxA-F2	40	20	1480	1520
LG40-T400ST/TxA-F2	40	20	1560	1600
LG40-T420ST/TxA-F2	40	20	1640	1680
LG40-T440ST/TxA-F2	40	20	1720	1760
LG40-T460ST/TxA-F2	40	20	1800	1840
LG40-T480ST/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



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

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.

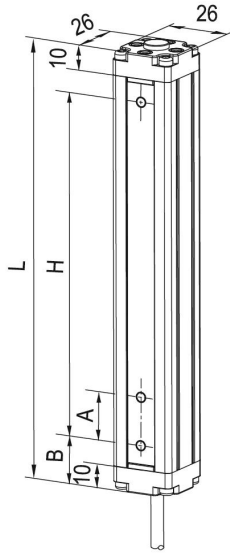
Model specification

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 ² (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, reverse polarity protection		end cap: reinforced nylon
Ambient humidity	35%...85%RH,Storage:35%...85%RH(No condensation)	Connection type	leading wire 18cm Match M12 Connector
Ambient temperature	-10°C~+55°C(Be careful not to dew or freeze), Storage:-10°C~+60°C	Accessories	leading wire 5m Busbar (QE12-N4F5, QE12-N3F5)
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, $H=A \cdot (N-1)$
 A: Axis distance, 20mm

L: Total height: $L=H+40\text{mm}$
 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		

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