

Area light curtains **LG40** series

**Features**

- ◆ Ultra long detection range;
- ◆ Various series and specifications optional, detection range from 140 to 1880mm;
- ◆ Products with self-check function, be able to detect internal exceptions;
- ◆ Strong intensity LED indicates operation status;
- ◆ IP65 protection degree.

**Part number**

|                   |                  |                  |                  |                  |                  |
|-------------------|------------------|------------------|------------------|------------------|------------------|
| Axis number       | 4 Axes           | 6 Axes           | 8 Axes           | 10 Axes          | 12 Axes          |
| Emitter           | LG40-T0405T-F2   | LG40-T0605T-F2   | LG40-T0805T-F2   | LG40-T1005T-F2   | LG40-T1205T-F2   |
| NPN NC            | LG40-T0405TNA-F2 | LG40-T0605TNA-F2 | LG40-T0805TNA-F2 | LG40-T1005TNA-F2 | LG40-T1205TNA-F2 |
| PNP 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     | <5ms             | <10ms            | <15ms            | <20ms            | <25ms            |
| Axis number       | 14 Axes          | 16 Axes          | 18 Axes          | 20 Axes          | 22 Axes          |
| Emitter           | LG40-T1405T-F2   | LG40-T1605T-F2   | LG40-T1805T-F2   | LG40-T2005T-F2   | LG40-T2205T-F2   |
| NPN NC            | LG40-T1405TNA-F2 | LG40-T1605TNA-F2 | LG40-T1805TNA-F2 | LG40-T2005TNA-F2 | LG40-T2205TNA-F2 |
| PNP 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            |
| Axis number       | 24 Axes          | 26 Axes          | 28 Axes          | 30 Axes          | 32 Axes          |
| Emitter           | LG40-T2405T-F2   | LG40-T2605T-F2   | LG40-T2805T-F2   | LG40-T3005T-F2   | LG40-T3205T-F2   |
| NPN NC            | LG40-T2405TNA-F2 | LG40-T2605TNA-F2 | LG40-T2805TNA-F2 | LG40-T3005TNA-F2 | LG40-T3205TNA-F2 |
| PNP 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            |
| Axis number       | 34 Axes          | 36 Axes          | 38 Axes          | 40 Axes          | 42 Axes          |
| Emitter           | LG40-T3405T-F2   | LG40-T3605T-F2   | LG40-T3805T-F2   | LG40-T4005T-F2   | LG40-T4205T-F2   |
| NPN NC            | LG40-T3405TNA-F2 | LG40-T3605TNA-F2 | LG40-T3805TNA-F2 | LG40-T4005TNA-F2 | LG40-T4205TNA-F2 |
| PNP 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           |
| Axis number       | 44 Axes          |                  |                  |                  |                  |
| Emitter           | LG40-T4405T-F2   |                  |                  |                  |                  |
| NPN NC            | LG40-T4405TNA-F2 |                  |                  |                  |                  |
| PNP NC            | LG40-T4405TPA-F2 |                  |                  |                  |                  |
| Protection height | 1720mm           |                  |                  |                  |                  |
| Response time     | <105ms           |                  |                  |                  |                  |

**Technical specifications**

|                     |   |                           |   |
|---------------------|---|---------------------------|---|
| Detection width     | 0.1~5m  | Intensity of illumination | Incandescent lamp: intensity of illumination 4,000lux |
| Axis distance       | 40mm  | Protection degree         | IP65  |
| Sensing object      | Φ60mm opaque object   | Connection                | 18cm cable with M12 connector                         |
| Power voltage       | 12~24V DC±10%   | Accessory                 | 5m Connection cable(QE12-N4F5, QE12-N3F5)             |
| Light sources       | 850nm Infrared(modulate)  |                           |   |
| Anti-vibration      | 10Hz~55Hz,amplitude:1.2mm, 2 hours each for X,Y,Z direction   |                           |   |
| Anti-shocking       | Acceleration: 500m/s <sup>2</sup> (approx:50G) ,3 times each for X,Y,Z direction  |                           |   |
| Circuit protection  | Reverse polarity, short-circuit protection, overload protection   |                           |   |
| Ambient humidity    | 35%~85%RH, storage: 35%~85%RH   |                           |   |
| Ambient temperature | -10°C~+55°C (dewed or iced forbidden) , storage: -10°C~+60°C  |                           |   |
| Housing material    | Housing: AL; Light cover: PC; End cover: enhanced nylon   |                           |   |
| Current consumption | Emitter: <60mA (Current consumption has nothing to do with the number of axles)<br>Receiver:<45mA (8 axes, current consumption will increase 5mA when 8 axes increased) |                           |   |

**尺寸图**
