



Through-beam sensor receiver

O6E-FNKG/0,30m/US



- 1 output function switch
- 2 potentiometer sensitivity
- 3 Light incidence



| Product characteristics                         |      |                                     |
|-------------------------------------------------|------|-------------------------------------|
| Type of light                                   |      | red light                           |
| Housing                                         |      | rectangular                         |
| Application                                     |      |                                     |
| Function principle                              |      | Through-beam sensor                 |
| Electrical data                                 |      |                                     |
| Operating voltage                               | [V]  | 10...30 DC                          |
| Current consumption                             | [mA] | 7; ((24 V))                         |
| Protection class                                |      | III                                 |
| Reverse polarity protection                     |      | yes                                 |
| Type of light                                   |      | red light                           |
| Wave length                                     | [nm] | 633                                 |
| Outputs                                         |      |                                     |
| Electrical design                               |      | NPN                                 |
| Output function                                 |      | light-on/dark-on mode; (selectable) |
| Max. voltage drop switching output DC           | [V]  | 2.5                                 |
| Permanent current rating of switching output DC | [mA] | 100                                 |
| Switching frequency DC                          | [Hz] | 1000                                |
| Short-circuit protection                        |      | yes                                 |
| Type of short-circuit protection                |      | yes (non-latching)                  |
| Monitoring range                                |      |                                     |
| Transmitter / receiver                          |      | receiver                            |

# O6E205



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|                  |     |      |
|------------------|-----|------|
| Range            | [m] | < 10 |
| Range adjustable |     | yes  |

### Operating conditions

|                     |      |              |
|---------------------|------|--------------|
| Ambient temperature | [°C] | -25...60     |
| Protection          |      | IP 65; IP 67 |

### Tests / approvals

|             |         |                         |
|-------------|---------|-------------------------|
| EMC         |         | EN 60947-5-2            |
| MTTF        | [years] | 956                     |
| UL approval |         | UL approval number E012 |

### Mechanical data

|                   |      |                                   |
|-------------------|------|-----------------------------------|
| Weight            | [g]  | 32.9                              |
| Housing           |      | rectangular                       |
| Dimensions        | [mm] | 35.4 x 13 x 21                    |
| Material          |      | housing: ABS; PPSU; sealing: EPDM |
| Lens material     |      | PMMA                              |
| Lens alignment    |      | Side sensing                      |
| Tightening torque | [Nm] | 0.5                               |

### Displays / operating elements

|         |                  |                 |
|---------|------------------|-----------------|
| Display | Switching status | 1 x LED, yellow |
|         | Power            | 1 x LED, green  |

### Remarks

|               |                                 |
|---------------|---------------------------------|
| Remarks       | cULus - Class 2 source required |
| Pack quantity | 1 pcs.                          |

### Electrical connection

Cable: 0.3 m, PUR; 3 x 0.25 mm<sup>2</sup>

Connector: 1 x M12; coding: A



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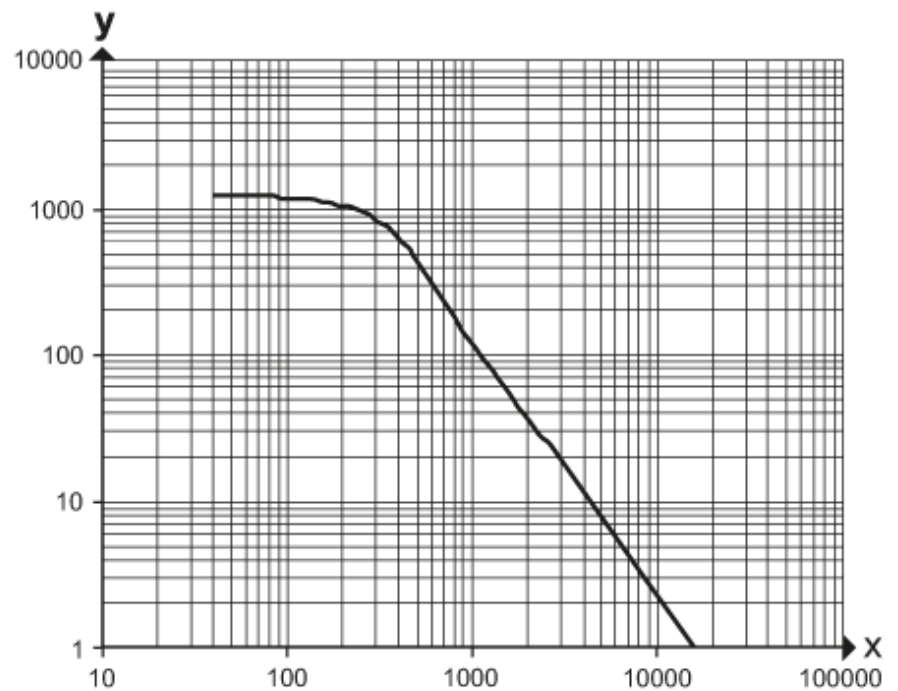
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### Connection



### Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor