

# OY450S

## Safety light curtain

OYA1510-30-4-15-P-1-A



- T transmitter
- R receiver
- 1 LED tiga warna merah/hijau/oranye
- 2 LED 2 warna kuning/biru
- 3 LED 2 warna merah/hijau



### Karakteristik produk

|                    |                                                       |
|--------------------|-------------------------------------------------------|
| Tipe cahaya        | cahaya inframerah                                     |
| Desain kelistrikan | PNP                                                   |
| Perlindungan       | IP 65; IP 67; IP 69K; (dengan pipa pelindung: IP 69K) |

### Aplikasi

|                  |                                       |
|------------------|---------------------------------------|
| Fungsi pelindung | pencegah akses untuk pelindung tangan |
|------------------|---------------------------------------|



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| Data kelistrikan                                   |             |                                                       |
|----------------------------------------------------|-------------|-------------------------------------------------------|
| Toleransi tegangan pengoperasian                   | [%]         | 20                                                    |
| Tegangan pengoperasian                             | [V]         | 24 DC                                                 |
| Kelas perlindungan                                 |             | III                                                   |
| Pelindung polaritas terbalik                       |             | ya                                                    |
| Waktu penundaan pengaktifan                        | [s]         | < 2                                                   |
| Tipe cahaya                                        |             | cahaya inframerah                                     |
| Panjang gelombang                                  | [nm]        | 950                                                   |
| Receiver                                           |             |                                                       |
| Konsumsi arus                                      | [mA]        | 83                                                    |
| Konsumsi arus pemanasan                            | [mA]        | 417                                                   |
| Transmitter                                        |             |                                                       |
| Konsumsi arus                                      | [mA]        | 42                                                    |
| Konsumsi arus pemanasan                            | [mA]        | 417                                                   |
| Output                                             |             |                                                       |
| Desain kelistrikan                                 |             | PNP                                                   |
| Jumlah output OSSD                                 |             | 2                                                     |
| Beban arus maksimal per output OSSD                | [mA]        | 400; (24 V)                                           |
| Pelindung hubung singkat                           |             | ya                                                    |
| Zona pendeteksian                                  |             |                                                       |
| Tinggi area yang dilindungi                        | [mm]        | 1510                                                  |
| Resolusi (kapasitas deteksi d)                     | [mm]        | 30                                                    |
| Lebar area perlindungan (intensitas cahaya rendah) | [m]         | 0...7                                                 |
| Lebar area perlindungan (intensitas cahaya tinggi) | [m]         | 3...15                                                |
| Waktu respons                                      |             |                                                       |
| Waktu respons                                      | [ms]        | 11                                                    |
| Kondisi pengoperasian                              |             |                                                       |
| Suhu sekitar                                       | [°C]        | -20...55                                              |
| Kelembapan udara relatif maks.                     | [%]         | 95                                                    |
| Perlindungan                                       |             | IP 65; IP 67; IP 69K; (dengan pipa pelindung: IP 69K) |
| Pengujian/persetujuan                              |             |                                                       |
| EME                                                | IEC 61496-1 |                                                       |
| Tahan guncangan                                    | IEC 61496-1 |                                                       |
| Ketahanan terhadap getaran                         | IEC 61496-1 |                                                       |
| Klasifikasi keamanan                               |             |                                                       |
| Tipe ESPE (IEC 61496-1)                            |             | 4                                                     |
| Memenuhi persyaratan                               |             | ISO 13849-1: 2015 kategori 4, PL e                    |
|                                                    |             | IEC 61508 SIL 3                                       |
|                                                    |             | IEC 62061 SIL 3                                       |



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|               |       |         |
|---------------|-------|---------|
| Waktu misi TM | [h]   | 175200  |
| PFH           | [1/h] | 2,0E-08 |

| Data teknis |      |                                                                                                              |
|-------------|------|--------------------------------------------------------------------------------------------------------------|
| Berat       | [g]  | 8725                                                                                                         |
| Dimensi     | [mm] | 1687 x 76 x 74                                                                                               |
| Material    |      | thermowell: PMMA transparan; Tutup pelindung: POM;<br>klem: baja tahan karat (1.4404 / 316L); Segel: silikon |
| Panjang L   | [mm] | 1687                                                                                                         |

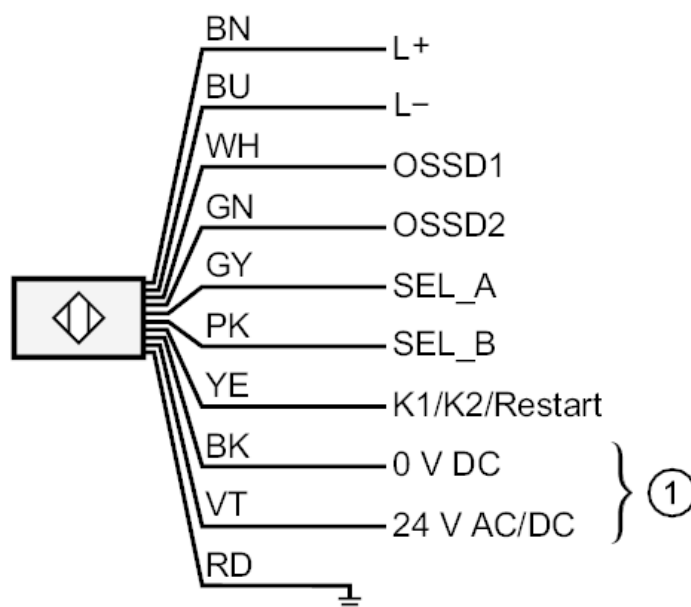
| Elemen display/pengoperasian |             |         |
|------------------------------|-------------|---------|
| Display                      | transmitter | 1 x LED |
|                              | receiver    | 2 x LED |

| Keterangan   |        |
|--------------|--------|
| Jumlah paket | 1 buah |

## Koneksi listrik - receiver

Kabel: 15 m, PVC; Panjang kabel maksimal: 100 m; 10 x 0.34 mm<sup>2</sup>

## Koneksi



|      |              |
|------|--------------|
| 1:   | pemanasan    |
|      | Warna core : |
| BK = | hitam        |
| BN = | coklat       |
| BU = | biru         |
| GN = | hijau        |
| GY = | abu-abu      |
| PK = | merah muda   |
| RD = | merah        |
| VT = | ungu         |
| WH = | putih        |
| YE = | kuning       |

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### Koneksi listrik - transmitter

Kabel: 15 m, PVC; 8 x 0.34 mm<sup>2</sup>

### Koneksi



1: pemanasan  
 PK: tidak digunakan  
 Warna core :  
 BN = coklat  
 BU = biru  
 GN = hijau  
 GY = abu-abu  
 PK = merah muda  
 RD = merah  
 WH = putih  
 YE = kuning