

UNIVERSAL PHOTOELECTRIC SENSORS

Tubular



| | | S5 | SDS | SL5 | S10 | S50 | S51 | |
|-----------------------------|--|-------------------------------------|---------------------------------------|---------------|-----------------------|--|---------------------------|---------|
| OPERATING DISTANCES | Through beam | 0...12 m | | 0...60 m | 0...8 m | 0...20 m 0...60 m | 0...12 m | |
| | Retroreflex <i>(on R2 reflector)</i> | 0.1...4 m | | | 0.1...2 m | 0.1...4 m | 0.1...2 m | |
| | Polarised retroreflex <i>(on R2 reflector)</i> | 0.1...3 m | | 0...12 m | 0.1...1.5 m | 0.1...4 m 0.1...16 m | 0.1...1.5 m | |
| | Retroreflex for transparents <i>(on R2 reflector)</i> | 0.1...0.8 m | | | | 0.1...1.3 m | | |
| | Diffuse proximity | 1...10 cm 1...35 cm 0...60 cm | | 0...35 cm | 1...8 cm 1...30 cm | 0...10 cm 0...40 cm 0...70 cm 0...35 cm | 0...10 cm 1...30 cm | |
| | Fixed focus proximity | 15 mm | | | 14 mm | 10 cm | | |
| | Background suppression | | 2...10 cm 4...12 m | | | 5...10 cm | | |
| | Foreground suppression | | | | | 4...10 cm | | |
| | Distance sensor | | | | | 5...10 cm | | |
| | Through beam with fibre-optic | | 0...85 mm | | | 0...100 mm | | |
| | Diffuse proximity with fibre-optic | | 0...22 mm | | | 0...30 mm | | |
| | TECHNICAL DATA | Power supply | Vdc | 10...30 | 10...30 | 10...30 | 10...30 | 10...30 |
| | | Vac | 15...264 | | | | | |
| | | Vac/dc | | | | | | |
| Output | | PNP | • | • | • | • | • | • |
| | | NPN | • | • | | • | • | • |
| | | NPN/PNP | • | | | | | |
| | | relay (triac) | (•) | | | | | |
| | | other | | | | | 0...10 V | |
| Connection | | cable | • | • | | | • | • |
| | | connector | • | • | • | • | • | • |
| | terminal block | | | | | | | |
| Approximate dimensions (mm) | | M18 x 55/68 | M18 x 85 (SDS5) M18 x 70 (SDS10) | M18 x 66 | M18 x 55/67 | M18 x 55/68 | M18 x 55/68 | |
| Housing material | | ABS | ABS (SDS5) NI plated brass (SDS10) | ABS | NI plated brass | PBT or NI plated brass | PBT or NI plated brass | |

Reflectors R series



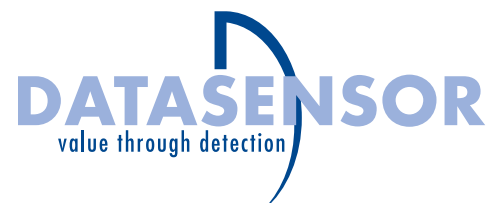
Miniature

Compact

| Miniature | | | | | Compact | | |
|---|------------------------|------------------------|------------------------------|--------------|---|--|--|
| SM123 | S3 | S3Z | S40 | S41 | S6 | S60 | S90 |
| 0...1.2 m | 0...5 m | 0...15 m | 0.1...6 m | 0.1...6 m | 0...20 m | 0...20 m 0...60 m | 0...20 m 0...60 m |
| | 0.1...2.5 m | | 0.1...3 m | | 0.1...6 m | | |
| 0...0.5 m | 0.1...2 m | 0.05...4 m | 0.1...2.5 m 0.1...6 m | 0.01...2.5 m | 0.1...5 m | 0...3.2 m 0.1...6.5 m 0.1...20 m | 0...3.2 m 0.1...6.5 m 0.1...20 m |
| | 0.2...0.8 m | | 0.1...0.7 m | 0.1...0.7 m | 0.1...1 m | 0...1.7 m (coaxial) | 0...1.7 m (coaxial) |
| | 0...10 cm 0...50 cm | 0...70 cm 5...15 cm | 0.5...30 cm 4...15 cm | 0.2...35 cm | 1...90 cm 5...200 cm | 1...100 cm 5...200 cm 0...60 cm | 1...100 cm 5...200 cm 0...60 cm |
| 0...20 mm 0...30 mm | 12 mm | | | 110 mm | | | |
| | | | 1.5...10 cm 2...6 cm | | 10 cm 3...25 cm 10...50 cm 12...110 cm | 7...20 cm 5...10 cm | 7...20 cm 5...10 cm |
| | | | | | 5...20 cm | 7...20 cm | 7...20 cm |
| | | | | | | 5...15 cm | |
| | 0...110 mm | | | | | | |
| | 0...33 mm | | | | | | |
| 10...30 | 10...30 | 10...30 | 10...30 | 10...30 | 10...30 | 10...30 | 10...30 |
| | | | | | 15...264 | | |
| • | • | • | • | • | • | • | |
| • | | • | • | • | | • | • |
| | • | | | | • | | |
| | | | | | | 0...10 V | |
| • | • | • | • | • | • | • | |
| | • | • | • | • | • | • | • |
| 8 x 26 x 12 (SM1) 12 x 25 x 4 (SM2) 9 x 26 x 15 (SM3) | 13 x 42 x 29 | 11 x 31 x 19 | 12 x 32 x 20 | 12 x 32 x 20 | 18 x 50 x 50 | 15 x 50 x 50 | 15 x 50 x 41 |
| ABS | ABS | PC/PBT | ABS | ABS | ABS | ABS | zama |

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Maxi

Fibre-optic amplifiers



S2



S20







S30



S80



S7

| | | | | |
|-------------------------|---|---------------|---|---|
| 0...10 m 0...50 m | 0.1...50 m | 0...70 m | | |
| 0.1...5 m | | | | |
| 0.1...3 m | 0.1...7 m | 0.1...8 m | | |
| 1...90 cm 1...200 cm | 0.1...2 m | 0.05...2 m | | |
| | 10...50 cm | 20...110 cm | | |
| | | | 30...400 cm 30...2000 cm 30...10000 cm |  cl. 2 |
| | | | | 0...300 mm 0...150 mm 0...75 mm |
| | | | | 0...100 mm 0...50 mm 0...25 mm |
| 10...30 | 10...30  | 10...30 | 15...30  | 12...24  |
| 15...264 | | 17...264 | | |
| | • • | • | • • | • • |
| • • | | • • | | |
| | | | 4...20 mA / RS485 | |
| | • | • | | • • |
| • | | • | | |
| 26 x 58 x 85 | 20 x 65 x 55 | 32 x 85 x 73 | 34 x 90 x 73 | 10 x 40 x 65 |
| PTB | ABS | polycarbonate | aluminium | ABS |

Connectors
CS series



Fibre-optics
OF series



APPLICATION PHOTOELECTRIC SENSORS

| | |  | | | | | | | |
|--|--|--|---|---|---|---|---|---------------------------------------|--------------|
| SERIES | | S50 | S60 | S65 | S90 | TL80 | TL μ | LD μ | |
| OPERATING DISTANCES | Contrast sensor  | 8...12 mm | 17...21 mm | 12...20 mm | 17...21 mm | 7...11 mm 16...20 mm 25...31 mm | 6...12 mm 14...22 mm 22...34 mm 40...60 mm | | |
| | Contrast sensor with fibre-optic  | | | | | 0...5 mm 0...15 mm | 0...3 mm 0...10 mm | | |
| | Luminescence sensor  | 8...20 mm | 0...40 mm | | 0...40 mm | | | 9...18 mm 15...35 mm 20...40 mm | |
| | Luminescence sensor with fibre-optic  | | | | | | | 0...30 mm | |
| | Colour sensor  | | | | 5...45 mm | | | | |
| | Colour sensor with fibre-optic  | | | | | | | | |
| | Line sensor  | | | | 200 mm | | | | |
| TECHNICAL DATA | Power supply | Vdc | 10...30  | 10...30  | 10...30  | 10...30  | 10...30 | 10...30 | 10...30 |
| | Output | PNP | • | • | • | • | | | |
| | | NPN | • | • | • | • | | | |
| | | NPN/PNP | | | | | • | • | • |
| | | other | | | | 4...20mA/RS485 | 0...5 V | 0...5 V | 0...7 V |
| | Connection | cable | • | • | | | • | • | • |
| | | connector | • | • | • | • | • | • | • |
| | Approximate dimensions (mm) | | M18 x 55/68 | 15 x 55 x 50 | 50 x 50 x 25 | 15 x 50 x 41 | 30 x 75 x 62 | 31 x 81 x 58 | 31 x 81 x 58 |
| | Housing material | | PTB or Ni plated brass | ABS | ABS | zama | zama | zama | zama |
| | SERIES | |  | | | | | | |
| Slot sensors  | | 2 mm | 30 mm | 30 mm | 50 mm | 80 mm | 120 mm | | |
| TECHN. DATA | Power supply | Vdc | 10...30 | 10...30 | 10...30 | 10...30 | 10...30 | 10...30 | |
| | Output | PNP | • | • | • | • | • | • | |
| | | NPN | • | • | • | • | • | • | |
| | | NPN/PNP | | | | | | | |
| | Connection | cable | | • | | | | | |
| | | connector | • | • | • | • | • | • | |
| | Approximate dimensions (mm) | | 20 x 90 x 26 | 13 x 70 x 50 | 10 x 59 x 50 | 10 x 79 x 70 | 10 x 79 x 100 | 10 x 84 x 140 | |
| Housing material | | zama | aluminium | aluminium | aluminium | aluminium | aluminium | | |

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