

Product Comparison

| | EDS-C 30 | DLS-C 30 | DLS-C 15 | FLS-C 10 | FLS-CH 10 | DPE-10-500 | DPE-30-150 | DAN-10-150 | DAE-10-050 | DAN-30-150 |
|---|--------------------|------------------|------------------|------------------|------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| PARTNUMBER | 550502 | 500621 | 500622 | 600502 | 600504 | 500630 | 500631 | 500632 | 500633 | 500634 |
| SPECIFICATION | | | | | | | | | | |
| Typical accuracy @ ±2σ (@ ±1σ) | ±3 (±1.5) mm | ±3 (±1.5) mm | ±1.5 (±0.75) mm | ±1 (±0.5) mm | ±1 (±0.5) mm | ±1 (±0.5) mm | ±3 (±1.5) mm | ±1 (±0.5) mm | ±1 (±0.5) mm | ±3 (±1.5) mm |
| Typical repeatability @ ±2σ (@ ±1σ) | ±1.5 (±0.75) mm | ±0.5 (±0.25) mm | ±0.4 (±0.2) mm | ±0.3 (±0.15) mm | ±0.3 (±0.15) mm | ±0.3 (±0.15) mm | ±0.7 (±0.35) mm | ±0.3 (±0.15) mm | ±0.3 (±0.15) mm | ±0.7 (±0.35) mm |
| Measuring range on natural surfaces | 0.05...30 m | 0.05...~65 m | 0.05...~65 m | 0.05...~65 m | 0.05...~65 m | 0.05...~100 m | 0.05...~100 m | 0.15...~100 m | 0.05...~50 m | 0.15...~100 m |
| Measuring range on reflective foil | | ~25...150 m | ~25...150 m | ~0.5...500 m | ~0.5...500 m | ~0.5...500 m | ~0.5...150 m | ~40...150 m | ~40...50 m | ~40...150 m |
| Max. measuring rate | 3 Hz | 6 Hz | 6 Hz | 250 Hz* | 250 Hz* | 250 Hz | 250 Hz | 50 Hz | 50 Hz | 50 Hz |
| Max. output rate | 3 Hz | 6 Hz | 6 Hz | 250 Hz* | 250 Hz* | 1 kHz | 1 kHz | 50 Hz | 50 Hz | 50 Hz |
| Operating temperature | -10...+50°C | -10...+50°C | -10...+50°C | -10...+50°C | -40...+50°C | -40...+60°C | -40...+60°C | -10...+50°C | -40...+60°C | -10...+50°C |
| Degree of protection | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 |
| Power supply, voltage range | 24...30 VDC | 9...30 VDC | 9...30 VDC | 9...30 VDC | 24...30 VDC | 12...30 VDC | 12...30 VDC | 12...30 VDC | 12...30 VDC | 12...30 VDC |
| Current consumption @ 24 VDC | 0.1 A | 0.6 A | 0.6 A | 0.6 A | 2.5 A | 0.5 A | 0.5 A | 0.15 A | 0.5 A | 0.15 A |
| Laser red, visible (Laser Class 2, <1mW) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Typical diameter of laser dot @ 10, 50, 100m. | 8, 25, 40mm | 8, 25, 40mm | 8, 25, 40mm | 8, 25, 40mm | 8, 25, 40mm | 7 x 3; 28 x 13; 55 x 30 mm | 7 x 3; 28 x 13; 55 x 30 mm | 7 x 3; 28 x 13; 55 x 30 mm | 7 x 3; 28 x 13; 55 x 30 mm | 7 x 3; 28 x 13; 55 x 30 mm |
| Dimension (L x W x H) | 106 x 62 x 45 mm | 150 x 80 x 55 mm | 150 x 80 x 55 mm | 150 x 80 x 55 mm | 150 x 80 x 55 mm | 140 x 78 x 48 mm | 140 x 78 x 48 mm | 140 x 78 x 48 mm | 140 x 78 x 48 mm | 140 x 78 x 48 mm |
| Weight | 280 g | 690 g | 690 g | 690 g | 720 g | 350 g | 350 g | 350 g | 350 g | 350 g |
| INTERFACES | | | | | | | | | | |
| Analog output, programmable | 0/4...20 mA | 0/4...20 mA | 0/4...20 mA | 0/4...20 mA | 0/4...20 mA | 0/4...20 mA | 0/4...20 mA | 0/4...20 mA | 0/4...20 mA | 0/4...20 mA |
| Max. error analog output | ±0.3 % | ±0.2 % | ±0.2 % | ±0.1 % | ±0.1 % | ±0.1 % | ±0.1 % | ±0.1 % | ±0.1 % | ±0.1 % |
| Digital input, programmable | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Digital output, programmable / error display | | 2 / 1 | 2 / 1 | 2 / 1 | 2 / 1 | 2 / 1 | 2 / 1 | 2 / 1 | 2 / 1 | 2 / 1 |
| Digital output type, programmable | | | | | | | | | | |
| NPN | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| PNP / Push-Pull | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| RS-232 | Configuration only | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| RS-422 / RS-485 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| SSI, programmable | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| USB, configuration only | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Optional | | | | | | | | | | |
| PROFIBUS (external) | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| PROFINET / EtherNet/IP / EtherCAT | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ |
| CONNECTION | | | | | | | | | | |
| M12 connector (5 pin) | ✓ | | | | | | | | | |
| D-Sub connector (15 pin) | | ✓ | ✓ | ✓ | ✓ | | | | | |
| Internal screw terminals | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| FEATURES | | | | | | | | | | |
| Automatic mode for stand-alone operation | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Direct connectivity of an external display | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| User distance offset / gain, programmable | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Filter functions, programmable | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Adjustable measurement behaviour | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Programmable device ID | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Trigger functionality | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

* For moving target applications only (no distance jumps)

