

# Product Comparison

	<b>EDS-C 30</b>	<b>DLS-C 30</b>	<b>DLS-C 15</b>	<b>FLS-C 10</b>	<b>FLS-CH 10</b>	<b>DPE-10-500</b>	<b>DPE-30-150</b>	<b>DAN-10-150</b>	<b>DAE-10-050</b>	<b>DAN-30-150</b>
<b>PARTNUMBER</b>	<b>550502</b>	<b>500621</b>	<b>500622</b>	<b>600502</b>	<b>600504</b>	<b>500630</b>	<b>500631</b>	<b>500632</b>	<b>500633</b>	<b>500634</b>
<b>SPECIFICATION</b>										
Typical accuracy @ $\pm 2\sigma$ (@ $\pm 1\sigma$ )	$\pm 3$ ( $\pm 1.5$ ) mm	$\pm 3$ ( $\pm 1.5$ ) mm	$\pm 1.5$ ( $\pm 0.75$ ) mm	$\pm 1$ ( $\pm 0.5$ ) mm	$\pm 1$ ( $\pm 0.5$ ) mm	$\pm 1$ ( $\pm 0.5$ ) mm	$\pm 3$ ( $\pm 1.5$ ) mm	$\pm 1$ ( $\pm 0.5$ ) mm	$\pm 1$ ( $\pm 0.5$ ) mm	$\pm 3$ ( $\pm 1.5$ ) mm
Typical repeatability @ $\pm 2\sigma$ (@ $\pm 1\sigma$ )	$\pm 1.5$ ( $\pm 0.75$ ) mm	$\pm 0.5$ ( $\pm 0.25$ ) mm	$\pm 0.4$ ( $\pm 0.2$ ) mm	$\pm 0.3$ ( $\pm 0.15$ ) mm	$\pm 0.3$ ( $\pm 0.15$ ) mm	$\pm 0.3$ ( $\pm 0.15$ ) mm	$\pm 0.7$ ( $\pm 0.35$ ) mm	$\pm 0.3$ ( $\pm 0.15$ ) mm	$\pm 0.3$ ( $\pm 0.15$ ) mm	$\pm 0.7$ ( $\pm 0.35$ ) 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	~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
<b>INTERFACES</b>										
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	$\pm 0.3$ %	$\pm 0.2$ %	$\pm 0.2$ %	$\pm 0.1$ %	$\pm 0.1$ %	$\pm 0.1$ %	$\pm 0.1$ %	$\pm 0.1$ %	$\pm 0.1$ %	$\pm 0.1$ %
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						✓	✓	✓	✓	✓
<b>CONNECTION</b>										
M12 connector (5 pin)	✓									
D-Sub connector (15 pin)		✓	✓	✓	✓					
Internal screw terminals		✓	✓	✓	✓	✓	✓	✓	✓	✓
<b>FEATURES</b>										
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)

