



DISTANCE MEASURING – contactless and reliable

EDS-C

the simple and economic solution



Measuring range: **0 ... 30 m**
Accuracy: **± 3 mm**

DLS-C

precise measuring in extreme situations



Measuring range: **0 ... 150 m**
Accuracy: **± 1.5 mm**

FLS-C

fast measurements and unique accuracy



Measuring range: **0 ... 500 m**
Accuracy: **± 1 mm**

Specification

- Repeatability: ± 1.5 mm
- Measuring rate: up to 3 Hz
- Operating temperature: -10 °C ... + 50 °C
- Interfaces: 0/4 ... 20 mA

Specification

- Repeatability: ± 0.4 mm
- Measuring rate: up to 6 Hz
- Operating temperature: -40 °C ... + 50 °C
- Interfaces: 0/4 ... 20 mA
2 Digital outputs
- Serial interfaces: RS-232
RS-422
Profibus (Option)

Specification

- Repeatability: ± 0.3 mm
- Measuring rate: up to 200 Hz
- Operating temperature: -40 °C ... + 50 °C
- Interfaces: 0/4 ... 20 mA
2 Digital outputs
- Serial interfaces: RS-232
RS-422 or SSI
Profibus (Option)

Applications

- Distance monitoring
- Height measuring
- Level measuring
- Diameter gauging

Applications

- Feed measuring
- Steel industry
- Collision prevention
- Length measurement

Applications

- Crane positioning
- Storage technology
- Elevator positioning
- Surveying applications



DISTANCE MEASURING – contactless and reliable

Product comparison	EDS-C	DLS-C				FLS-C			
Product type Item No.	EDS-C 30 550502	DLS-C 30 500621	DLS-C 15 500622	DLS-CH 30 500623	DLS-CH 15 500624	FLS-C 30 600501	FLS-C 10 600502	FLS-CH 30 600503	FLS-CH 10 600504
Specification									
Measuring range on reflective foil	-	~25 ... 150 m	~25 ... 150 m	~25 ... 150 m	~25 ... 150 m	~0.5 ... 500 m	~0.5 ... 500 m	~0.5 ... 500 m	~0.5 ... 500 m
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 ... ~65 m	0.05 ... ~65 m	0.05 ... ~65 m	0.05 ... ~65 m
Accuracy typ. @ 2σ	± 3 mm	± 3 mm	± 1.5 mm	± 3 mm	± 1.5 mm	± 3 mm	± 1 mm	± 3 mm	± 1 mm
Repeatability typ.	± 1.5 mm	± 0.5 mm	± 0.4 mm	± 0.5 mm	± 0.4 mm	± 0.5 mm	± 0.3 mm	± 0.5 mm	± 0.3 mm
Max. measuring rate	3 Hz	6 Hz	6 Hz	6 Hz	6 Hz	200 Hz	200 Hz	200 Hz	200 Hz
Operating temperature	-10 ... +50 °C	-10 ... +50 °C	-10 ... +50 °C	-40 ... +50 °C	-40 ... +50 °C	-10 ... +50 °C	-10 ... +50 °C	-40 ... +50 °C	-40 ... +50 °C
Degree of protection	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Power supply	24 ... 30 VDC	9 ... 30 VDC	9 ... 30 VDC	24 ... 30 VDC	24 ... 30 VDC	9 ... 30 VDC	9 ... 30 VDC	24 ... 30 VDC	24 ... 30 VDC
Laser red, visible	✓	✓	✓	✓	✓	✓	✓	✓	✓
Diameter laser dot									
at 10 m	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm	8 mm
at 50 m		25 mm	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm
at 100 m		40 mm	40 mm	40 mm	40 mm	40 mm	40 mm	40 mm	40 mm
Dimension [mm]	106 x 62 x 45	150 x 80 x 50	150 x 80 x 50	150 x 80 x 50	150 x 80 x 50	150 x 80 x 50	150 x 80 x 50	150 x 80 x 50	150 x 80 x 50
Weight	280 g	690 g	690 g	720 g	720 g	690 g	690 g	720 g	720 g
Interfaces									
Analog output programmable, 0/4 ... 20 mA	✓	✓	✓	✓	✓	✓	✓	✓	✓
Max. error analog output	± 0.3 %	± 0.2 %	± 0.2 %	± 0.2 %	± 0.2 %	± 0.1 %	± 0.1 %	± 0.1 %	± 0.1 %
2 Digital Outputs, programmable		✓	✓	✓	✓	✓	✓	✓	✓
1 Digital Output, error display		✓	✓	✓	✓	✓	✓	✓	✓
1 Digital Input, programmable		✓	✓	✓	✓	✓	✓	✓	✓
RS-232		✓	✓	✓	✓	✓	✓	✓	✓
RS-422 with ID switch 0 ... 9		✓	✓	✓	✓	✓	✓	✓	✓
SSI						✓	✓	✓	✓
Profibus (externally)		✓	✓	✓	✓	✓	✓	✓	✓
Connection									
5 pin M12 connector	✓								
15 pin D-Sub connector or internal screw terminals		✓	✓	✓	✓	✓	✓	✓	✓
Features									
Automatic Mode	✓	✓	✓	✓	✓	✓	✓	✓	✓
Direct connectivity of an external display		✓	✓	✓	✓	✓	✓	✓	✓
External trigger		✓	✓	✓	✓	✓	✓	✓	✓

Further information can be found in our manual.

LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT



Your local agent:

DIMETIX

Dimetix USA
PO Box 195
Lionville, PA 19353
USA
Tel: +1 484 212 0636
Fax: +1 206 338 4281
info@dimetix-usa.com
www.dimetix-usa.com

DIMETIX

Dimetix AG
Degersheimerstr. 14
CH-9100 Herisau
Switzerland
Tel.: +41 71 353 00 00
Fax: +41 71 353 00 01
info@dimetix.com
www.dimetix.com