



# DISTANCE MEASURING – contactless and reliable





## EDS-C

the simple and economic solution



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

### Specification

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

### Applications

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






## DLS-C

precise measuring in extreme situations



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

### 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)**

### Applications

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






## FLS-C

fast measurements and unique accuracy







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

### 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

-  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
<b>Specification</b>									
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
<b>Interfaces</b>									
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)		✓	✓	✓	✓	✓	✓	✓	✓
<b>Connection</b>									
5 pin M12 connector	✓								
15 pin D-Sub connector or internal screw terminals		✓	✓	✓	✓	✓	✓	✓	✓
<b>Features</b>									
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 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](http://www.dimetix.com)