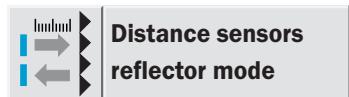


DME4000: distance measurement in millisecond cycles



**Distance sensors
reflector mode**

Distance measurement systems such as the DME4000 are used in automated storage technology for detecting the position of storage and retrieval devices. In order to do this, the sensor moves with the vehicle and constantly measures the time-of-flight of an emitted light impulse to the end of the shelf aisle and back. The DME determines the position of the storage and retrieval unit from this measurement and passes it on to the vehicle control system. Highly dynamic and accurate measurement; multi-functional switching outputs and inputs for standby, preset and other system func-

tions; a device display with all important information available at a glance; and a particularly user-friendly mounting and alignment concept are the most important advantages of the new DME4000 laser distance measurement system. The compact device is available in three versions that have been specially optimised for automatic small part stock, for pallets in high-bay warehouses or cranes. The DME4000's ambient temperature range has been designed for -10°C to $+55^{\circ}\text{C}$. A variant with internal heating achieves -40°C to $+55^{\circ}\text{C}$. Thus the distance measurement device is also suitable for use in deepfreeze storage systems. Two warehouse types of differing sizes predominate: automatic small part stock for containers of varying dimensions, and structurally larger high-bay warehouses for Euro and, sometimes, system-specific pallets. The new DME4000 is suitable for approach speeds of up to 10 m/s and takes the differing requirements of the two types of warehouses into account with its three range-optimised versions for 50 m, 130 m and 220 m.

SICK

DME4000 Distance measuring device, SSI

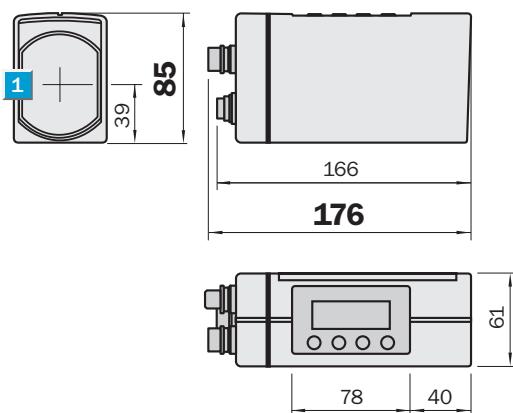
	Measurement range
0.15 ... 50/0.15 ... 130/	
0.15 ... 220 m	
Distance measuring device	

- Very fast measuring time
- High accuracy and reproducibility
- Illuminated LCD display with diagnosis information
- Easy assembly and alignment concept: bracket with adjusting spring and visible red light
- Speed monitoring

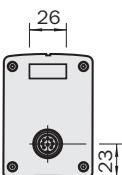


Dimensional drawing

All types

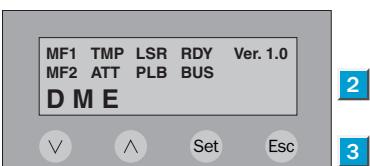


Back sight



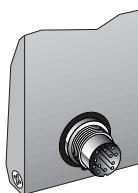
Adjustments possible

All types



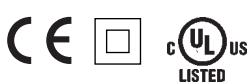
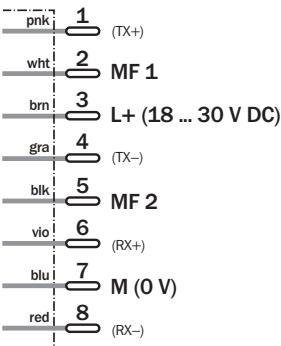
- 1** Center of optical axis
2 Liquid crystal display
3 Keypad

Connection type



Connections

8-pin, M16



 Laser class 2

Accessories

Connectors

Mounting systems

Technical Data	DME4000-	111	121	211	221	311	321			
Measurement range 1)	0.15 ... 50 m 0.15 ... 130 m 0.15 ... 220 m									
Accuracy	±3 mm ±5 mm ±6 mm									
Repeatability 2)	1 mm 2 mm 3 mm									
Light spot diameter	max. 130 mm at 70 m max. 270 mm at 150 m max. 360 mm at 220 m									
Resolution (adjustable)	0.05 ... 5 mm									
Light source 3), light type	Laser diode, red light									
Laser category	2 (EN 60825-1/C.D.R.H.)									
Supply voltage V_S 4)	18 ... 30 V DC									
Residual ripple 5)	5 V _{PP}									
Current consumption	< 250 mA at 24 V DC with heating < 1000 mA									
Switching outputs MF1, MF2	B (push/pull)									
Output (MF1/MF2)	HIGH: U _V < 3 V; LOW < 2 V									
Input (MF1) 6)	HIGH: > 12 V; LOW < 3 V									
Output current I _A max. 7)	100 mA (short-circuit/overload protected)									
Connection type	Plug									
VDE protection class⁸⁾	□									
Enclosure rating	IP 65									
Ambient temperature	Operation -10 °C ... +55 °C with heating Operation -40 °C ... +55 °C Storage -25 °C ... +75 °C									
Weight	approx. 1650 g									
Effect of air pressure	0.3 ppm/hPa									
Effect of air temperature	1 ppm/K									
Temperature drift	typ. 0.1 mm/K									
Measurement value output	1 ms									
Initialisation period 9)	500 ms									
Max. running speed	10 m/s									
EMC	EN 61000-6-2, EN 55011: class B									
Mechanical load	Shock: EN 60068-2-27/-2-29 Sine: EN 60068-2-6 Noise: EN 60068-2-64									

1) On reflective tape "Diamond Grade"

2) Statistical error 1 σ, environmental conditions constant, minimal warm-up time: 10 min.

3) Average service life 50,000 h at T_A = +25 °C

4) Limit values

5) May not exceed or fall short of V_S tolerances

6) Not reverse-polarity protected

7) Max. 100 nF/20 mH

8) Reference voltage 32 V DC

9) After reflector loss >200 ms

Order information	
Type	Order no.
DME4000-111	1029789
DME4000-121	1029792
DME4000-211	1029790
DME4000-221	1029794
DME4000-311	1041951
DME4000-321	1041957

DME4000 Distance measuring device, PROFIBUS

	Measurement range
0.15 ... 50/0.15 ... 130/	
0.15 ... 220 m	
Distance measuring device	

- Very fast measuring time
- High accuracy and reproducibility
- Illuminated LCD display with diagnosis information
- Easy assembly and alignment concept: bracket with adjusting spring and visible red light
- Speed monitoring



PROFI
BUS

 Laser class 2

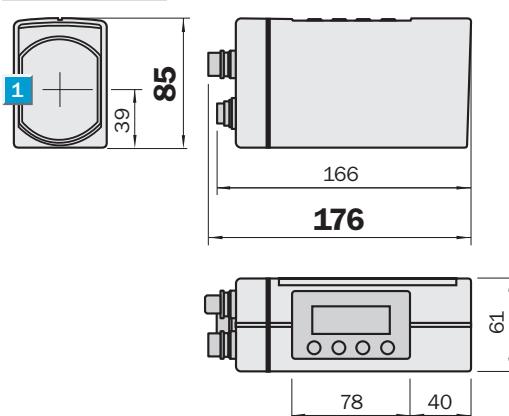
Accessories

Connectors

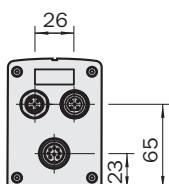
Mounting systems

Dimensional drawing

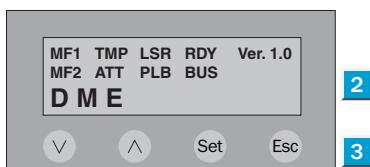
All types



Back sight

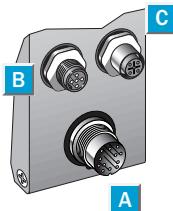


Adjustments possible



- 1 Center of optical axis
- 2 Liquid crystal display
- 3 Keypad

Connection type



Connections

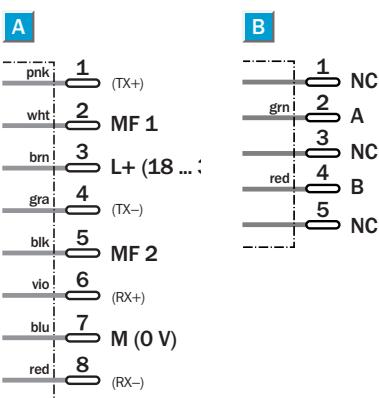
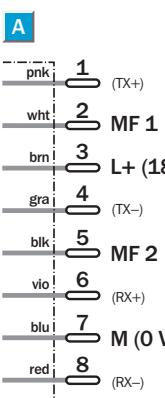
8-pin, M16

5-pin, M12

5-pin, M12

Bus in

Bus out



Technical Data	DME4000-	112	122	212	222	312	322				
Measurement range 1)	0.15 ... 50 m										
	0.15 ... 130 m										
	0.15 ... 220 m										
Accuracy	±3 mm										
	±5 mm										
	±6 mm										
Repeatability 2)	1 mm										
	2 mm										
	3 mm										
Light spot diameter	max. 130 mm at 70 m										
	max. 270 mm at 150 m										
	max. 360 mm at 220 m										
Resolution (adjustable)	0.05 ... 5 mm										
Light source 3), light type	Laser diode, red light										
Laser category	2 (EN 60825-1/C.D.R.H.)										
Supply voltage V_S 4)	18 ... 30 V DC										
Residual ripple 5)	5 V _{PP}										
Current consumption	< 250 mA at 24 V DC										
	with heating < 1000 mA										
Switching outputs MF1, MF2	B (push/pull)										
Output (MF1/MF2)	HIGH: U _Y < 3 V; LOW < 2 V										
Input (MF1) 6)	HIGH: > 12 V; LOW < 3 V										
Output current I _A max. 7)	100 mA (short-circuit/overload protected)										
Connection type	Plug										
VDE protection class⁸⁾	□										
Enclosure rating	IP 65										
Ambient temperature	Operation -10 °C ... +55 °C										
	with heating Operation -40 °C ... +55 °C										
	Storage -25 °C ... +75 °C										
Weight	approx. 1650 g										
Effect of air pressure	0.3 ppm/hPa										
Effect of air temperature	1 ppm/K										
Temperature drift	typ. 0.1 mm/K										
Measurement value output	2 ms										
Initialisation period 9)	500 ms										
Max. running speed	10 m/s										
EMC	EN 61000-6-2, EN 55011: class B										
Mechanical load	Shock: EN 60068-2-27/-2-29										
	Sine: EN 60068-2-6										
	Noise: EN 60068-2-64										

1) On reflective tape "Diamond Grade"

2) Statistical error 1 σ, environmental conditions constant, minimal warm-up time: 10 min.

3) Average service life 50,000 h at T_A = +25 °C

4) Limit values

5) May not exceed or fall short of V_S tolerances

6) Not reverse-polarity protected

7) Max. 100 nF/20 mH

8) Reference voltage 32 V DC

9) After reflector loss >200 ms

Order information

Type	Order no.
DME4000-112	1029788
DME4000-122	1029793
DME4000-212	1029791
DME4000-222	1029795
DME4000-312	1041950
DME4000-322	1041958

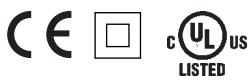
DME4000 Distance measuring device, RS 422

	Measurement range
0.15 ... 50/0.15 ... 130/	
0.15 ... 220 m	
Distance measuring device	

- Very fast measuring time
- High accuracy and reproducibility
- Illuminated LCD display with diagnosis information
- Easy assembly and alignment concept: bracket with adjusting spring and visible red light
- Speed monitoring



RS 422



 Laser class 2

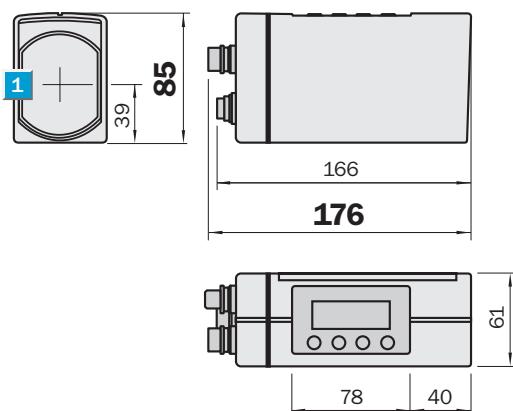
Accessories

Connectors

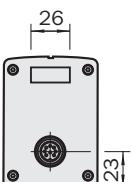
Mounting systems

Dimensional drawing

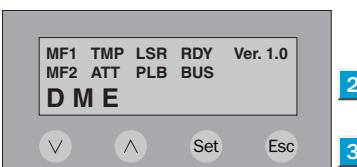
All types



Back sight



Adjustments possible



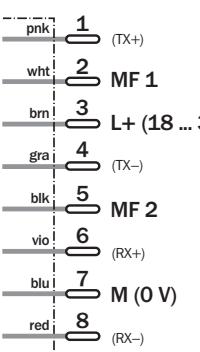
- | | |
|----------|------------------------|
| 1 | Center of optical axis |
| 2 | Liquid crystal display |
| 3 | Keypad |

Connection type



Connections

8-pin, M16



Technical Data	DME4000-	113	123	213	223	313	323			
Measurement range 1)	0.15 ... 50 m									
	0.15 ... 130 m									
	0.15 ... 220 m									
Accuracy	±3 mm									
	±5 mm									
	±6 mm									
Repeatability 2)	1 mm									
	2 mm									
	3 mm									
Light spot diameter	max. 130 mm at 70 m									
	max. 270 mm at 150 m									
	max. 360 mm at 220 m									
Resolution (adjustable)	0.05 ... 5 mm									
Light source 3), light type	Laser diode, red light									
Laser category	2 (EN 60825-1/C.D.R.H.)									
Supply voltage V_S 4)	18 ... 30 V DC									
Residual ripple 5)	5 V _{PP}									
Current consumption	< 250 mA at 24 V DC									
	with heating < 1000 mA									
Switching outputs MF1, MF2	B (push/pull)									
Output (MF1/MF2)	HIGH: U _Y < 3 V; LOW < 2 V									
Input (MF1) 6)	HIGH: > 12 V; LOW < 3 V									
Output current I _A max. 7)	100 mA (short-circuit/overload protected)									
Connection type	Plug									
VDE protection class⁸⁾	□									
Enclosure rating	IP 65									
Ambient temperature	Operation -10 °C ... +55 °C									
	with heating Operation -40 °C ... +55 °C									
	Storage -25 °C ... +75 °C									
Weight	approx. 1650 g									
Effect of air pressure	0.3 ppm/hPa									
Effect of air temperature	1 ppm/K									
Temperature drift	typ. 0.1 mm/K									
Measurement value output	2 ms									
Initialisation period 9)	500 ms									
Max. running speed	10 m/s									
EMC	EN 61000-6-2, EN 55011: class B									
Mechanical load	Shock: EN 60068-2-27/-2-29									
	Sine: EN 60068-2-6									
	Noise: EN 60068-2-64									

1) On reflective tape "Diamond Grade"

2) Statistical error 1 σ, environmental conditions constant, minimal warm-up time: 10 min.

3) Average service life 50,000 h at T_A = +25 °C

4) Limit values

5) May not exceed or fall short of V_S tolerances

6) Not reverse-polarity protected

7) Max. 100 nF/20 mH

8) Reference voltage 32 V DC

9) After reflector loss >200 ms

Order information

Type	Order no.
DME4000-113	1029796
DME4000-123	1029797
DME4000-213	1029798
DME4000-223	1029799
DME4000-313	1041952
DME4000-323	1040959

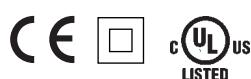
DME4000 Distance measuring device, DeviceNet

	Measurement range
0.15 ... 50/0.15 ... 130/	
0.15 ... 220 m	
Distance measuring device	

- Very fast measuring time
- High accuracy and reproducibility
- Illuminated LCD display with diagnosis information
- Easy assembly and alignment concept: bracket with adjusting spring and visible red light
- Speed monitoring



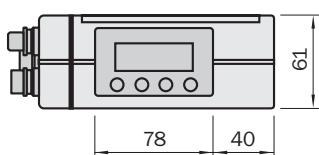
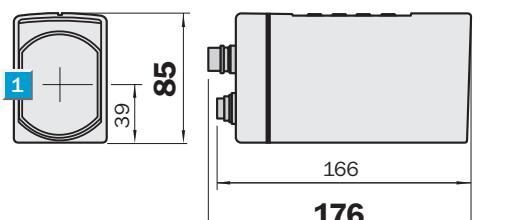
DeviceNet
Component 1010



 Laser class 2

Dimensional drawing

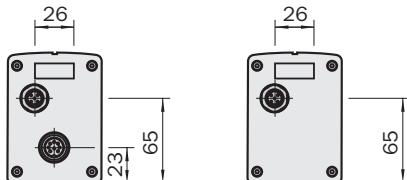
All types



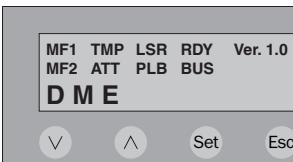
Back sight

DME4000-xx4

DME4000-xx5



Adjustments possible

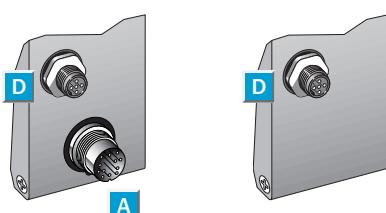


- 1 Center of optical axis
- 2 Liquid crystal display
- 3 Keypad

Connection type

DME4000-xx4

DME4000-xx5



Connections

8-pin, M16

5-pin, M12

Bus in

A

pnk	1	(TX+)
wht	2	MF 1
brn	3	L+ (18 ...)
gra	4	(TX-)
blk	5	MF 2
vio	6	(RX+)
blu	7	M (0 V)
red	8	(RX-)

D

grn	1	Shield
red	2	V+
blk	3	V-
wht	4	CAN _H
blu	5	CAN _L

Accessories

Connectors

Mounting systems

Technical Data	DME4000-	114	115	124	214	215	224	314	315	324	
Measurement range 1)	0.15 ... 50 m										
	0.15 ... 130 m										
	0.15 ... 220 m										
Accuracy	±3 mm										
	±5 mm										
	±6 mm										
Repeatability 2)	1 mm										
	2 mm										
	3 mm										
Light spot diameter	max. 130 mm at 70 m										
	max. 270 mm at 150 m										
	max. 360 mm at 220 m										
Resolution (adjustable)	0.05 ... 5 mm										
Light source 3), light type	Laser diode, red light										
Laser category	2 (EN 60825-1/C.D.R.H.)										
Supply voltage V_S 4)	18 ... 30 V DC										
Residual ripple 5)	5 V _{PP}										
Current consumption	< 250 mA at 24 V DC										
	with heating < 1000 mA										
Switching outputs MF1, MF2	B (push/pull)										
Output (MF1/MF2)	HIGH: U _V < 3 V; LOW < 2 V										
Input (MF1) 6)	HIGH: > 12 V; LOW < 3 V										
Output current I _A max. 7)	100 mA (short-circuit/overload protected)										
Connection type	Plug										
VDE protection class⁸⁾	□										
Enclosure rating	IP 65										
Ambient temperature	Operation -10 °C ... +55 °C										
	with heating Operation -40 °C ... +55 °C										
	Storage -25 °C ... +75 °C										
Weight	approx. 1650 g										
Effect of air pressure	0.3 ppm/hPa										
Effect of air temperature	1 ppm/K										
Temperature drift	typ. 0.1 mm/K										
Measurement value output	2 ms										
Initialisation period 9)	500 ms										
Max. running speed	10 m/s										
EMC	EN 61000-6-2, EN 55011: class B										
Mechanical load	Shock: EN 60068-2-27/-2-29										
	Sine: EN 60068-2-6										
	Noise: EN 60068-2-64										

1) On reflective tape "Diamond Grade"

2) Statistical error 1 σ, environmental conditions constant, minimal warm-up time: 10 min.

3) Average service life 50,000 h at T_A = +25 °C

4) Limit values

5) May not exceed or fall short of V_S tolerances

6) Not reverse-polarity protected

7) Max. 100 nF/20 mH

8) Reference voltage 32 V DC

9) After reflector loss >200 ms

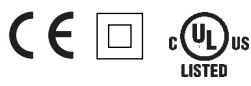
Order information	
Type	Order no.
DME4000-114	1029800
DME4000-115	1029801
DME4000-124	1029808
DME4000-214	1029802
DME4000-215	1029803
DME4000-224	1029805
DME4000-314	1041953
DME4000-315	1041954
DME4000-324	1041960

	Measurement range
0.15 ... 50/0.15 ... 130/	
0.15 ... 220 m	
Distance measuring device	

- Very fast measuring time
- High accuracy and reproducibility
- Illuminated LCD display with diagnosis information
- Easy assembly and alignment concept: bracket with adjusting spring and visible red light
- Speed monitoring



HIPERFACE®
by SICK|STEGMANN



 Laser class 2

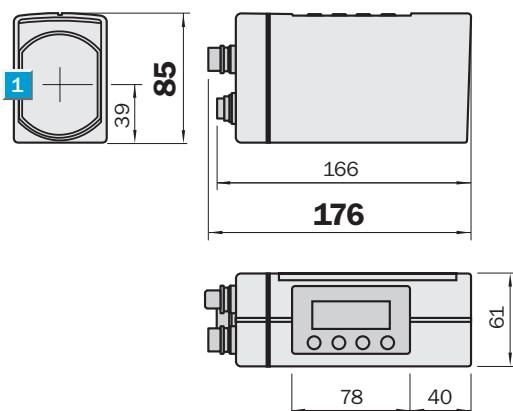
Accessories

Connectors

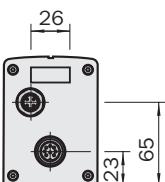
Mounting systems

Dimensional drawing

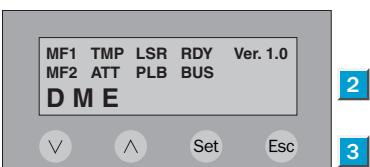
All types



Back sight

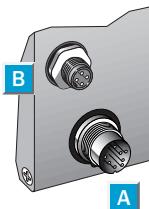


Adjustments possible



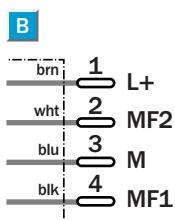
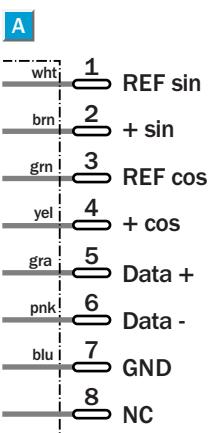
- | | |
|----------|------------------------|
| 1 | Center of optical axis |
| 2 | Liquid crystal display |
| 3 | Keypad |

Connection type



Connections

8-pin, M12 4-pin, M12



Technical Data	DME4000-	117	127	217	227	317	327			
Measurement range 1)	0.15 ... 50 m									
	0.15 ... 130 m									
	0.15 ... 220 m									
Accuracy	±3 mm									
	±5 mm									
	±6 mm									
Repeatability 2)	1 mm									
	2 mm									
	3 mm									
Light spot diameter	max. 130 mm at 70 m									
	max. 270 mm at 150 m									
	max. 360 mm at 220 m									
Resolution (adjustable)	0.25 ... 4 mm									
Light source 3), light type	Laser diode, red light									
Laser category	2 (EN 60825-1/C.D.R.H.)									
Supply voltage V_S 4)	18 ... 30 V DC									
Residual ripple 5)	5 V _{PP}									
Current consumption	< 250 mA at 24 V DC									
with heating	< 1000 mA									
Switching outputs MF1, MF2	B (push/pull)									
Output (MF1/MF2)	HIGH: U _V < 3 V; LOW < 2 V									
Input (MF1) 6)	HIGH: > 12 V; LOW < 3 V									
Output current I _A max. 7)	100 mA (short-circuit/overload protected)									
Connection type	Plug									
VDE protection class⁸⁾	□									
Enclosure rating	IP 65									
Ambient temperature	Operation -10 °C ... +55 °C									
with heating	Operation -40 °C ... +55 °C									
	Storage -25 °C ... +75 °C									
Weight	approx. 1650 g									
Effect of air pressure	0.3 ppm/hPa									
Effect of air temperature	1 ppm/K									
Temperature drift	typ. 0.1 mm/K									
Measurement value output	2 ms									
Initialisation period 9)	900 ms									
Max. running speed	10 m/s									
EMC	EN 61000-6-2, EN 55011: class B									
Mechanical load	Shock: EN 60068-2-27/-2-29									
	Sine: EN 60068-2-6									
	Noise: EN 60068-2-64									

1) On reflective tape "Diamond Grade"

2) Statistical error 1 σ, environmental conditions constant, minimal warm-up time: 10 min.

3) Average service life 50,000 h at T_A = +25 °C

4) Limit values

5) May not exceed or fall short of V_S tolerances

6) Not reverse-polarity protected

7) Max. 100 nF/20 mH

8) Reference voltage 32 V DC

9) After reflector loss >200 ms

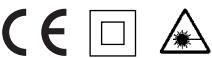
Order information

Type	Order no.
DME4000-117	1029807
DME4000-127	1029812
DME4000-217	1029806
DME4000-227	1029804
DME4000-317	1041955
DME4000-327	1041961

DME4000 Distance measuring device, CANOpen

	Measurement range
0.15 ... 50/0.15 ... 130/	
0.15 ... 220 m	
Distance measuring instrument	

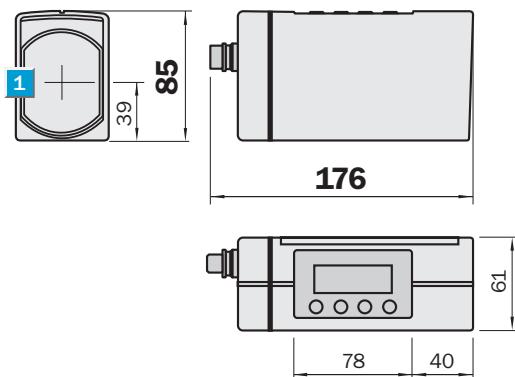
- Very fast measuring time
- High accuracy and reproducibility
- Illuminated LCD display with diagnosis information
- Easy assembly and alignment concept: bracket with adjusting spring and visible red light
- Speed monitoring



CANopen

Dimensional drawing

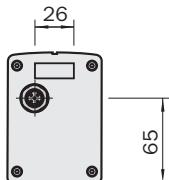
All types



1 Center of optical axis

Back sight

DME4000-xx9



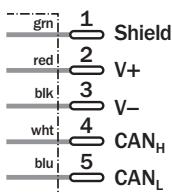
Connection type

DME4000-xx9



Connections

5-pin, M12



Accessories

Connectors

Mounting systems

Technical Data	DME4000-	119	219	319					
Measurement range¹⁾	0.15 ... 50 m 0.15 ... 130 m 0.15 ... 220 m								
Accuracy	±3 mm ±5 mm ±6 mm								
Repeatability²⁾	1 mm 2 mm 3 mm								
Light spot diameter	max. 130 mm at 70 m max. 270 mm at 150 m max. 360 mm at 220 m								
Resolution (adjustable)	0.05 ... 5 mm								
Light source³⁾, light type	Laser diode, red light								
Laser category	2 (EN 60825-1/C.D.R.H.)								
Supply voltage V_S⁴⁾	18 ... 30 V DC								
Residual ripple ⁵⁾	5 V _{PP}								
Current consumption	< 250 mA at 24 V DC								
Switching outputs MF1, MF2	B (push/pull)								
Output (MF1/MF2)	HIGH: U _V < 3 V; LOW < 2 V								
Input (MF1) ⁶⁾	HIGH: > 12 V; LOW < 3 V								
Output current I _A max. ⁷⁾	100 mA (short-circuit/overload protected)								
Connection type	Plug								
VDE protection class⁸⁾	□								
Enclosure rating	IP 65								
Ambient temperature	Operation -10 °C ... +55 °C Storage -25 °C ... +75 °C								
Weight	approx. 1650 g								
Effect of air pressure	0.3 ppm/hPa								
Effect of air temperature	1 ppm/K								
Temperature drift	typ. 0.1 mm/K								
Measurement value output	4 ms								
Initialisation period⁹⁾	500 ms								
Max. running speed	10 m/s								
EMC	EN 61000-6-2, EN 55011: class B								
Mechanical load	Shock: EN 60068-2-27/-2-29 Sine: EN 60068-2-6 Noise: EN 60068-2-64								

¹⁾ On reflective tape "Diamond Grade"²⁾ Statistical error 1 σ, environmental conditions constant, minimal warm-up time: 10 min.³⁾ Average service life 50,000 h at T_A = +25 °C⁴⁾ Limit values⁵⁾ May not exceed or fall short of V_S tolerances⁶⁾ Not reverse-polarity protected⁷⁾ Max. 100 nF/20 mH⁸⁾ Reference voltage 32 V DC⁹⁾ After reflector loss >200 ms

Order information	
Type	Order no.
DME4000-119	1042838
DME4000-219	1042839
DME4000-319	1042841

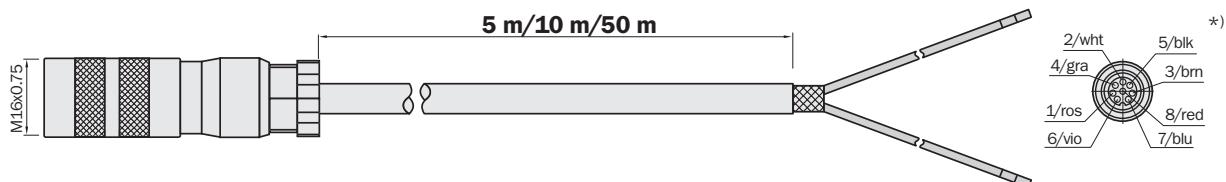
Connectors

Dimensional drawings and order information

Connectors for PROFIBUS, SSI, RS 422 and DeviceNet (only DME4000-XX4)

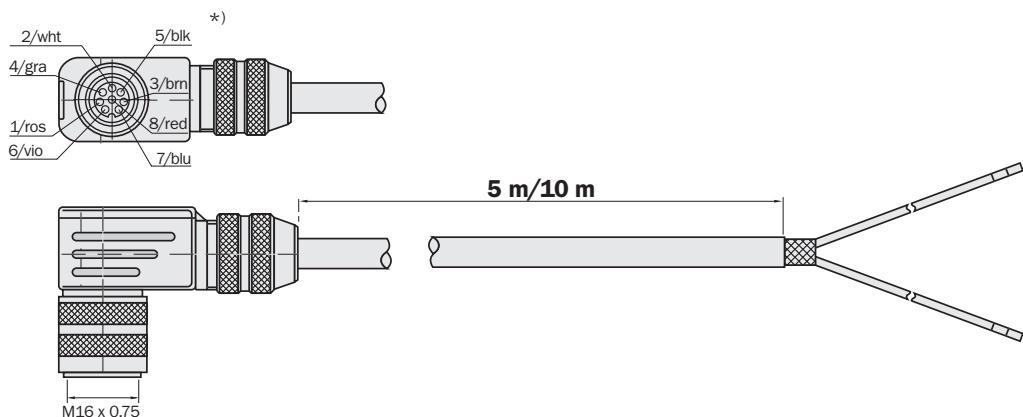
Female connector M16, 8-pin, straight

Type	Order no.	Cable length
DOL-1608-G05MA	2026742	5 m
DOL-1608-G10MA	2027193	10 m
DOL-1608-G50MA	6032903	50 m



Female connector M16, 8-pin, right angle

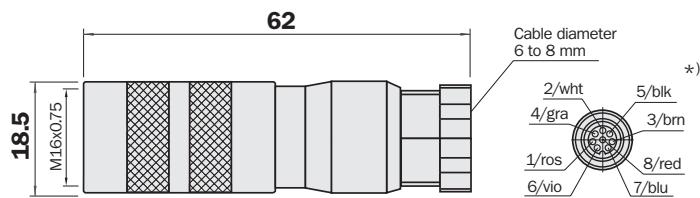
Type	Order no.	Cable length
DOL-1608-W05MA	2026743	5 m
DOL-1608-W10MA	2027194	10 m



*) Connector side

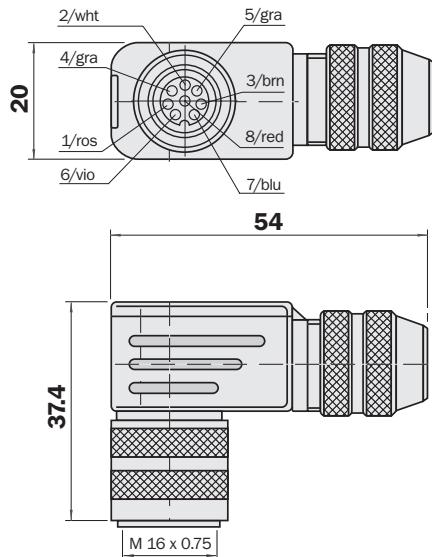
Female connector M16, 8-pin, straight

Type	Order no.
DOS-1608-GA	6025726



Female connector M16, 8-pin, right angle

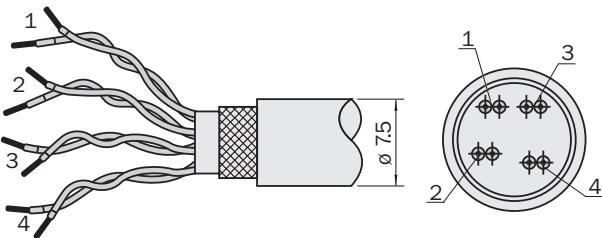
Type	Order no.
DOS-1608-WA	6025727



Dimensional drawings and order information

Cable 2 x 0.5 mm², 6 x 0.25 mm², twisted 2 x in pairs, shielded

Type	Order no.
LTG-2308-MW	6026292



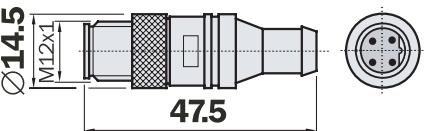
Technical data

Temperature range	variabel -5 ... +70 °C not variabel -40 ... +80 °C
Sheath	PUR grey
Shield	tinned copper net

Connectors for PROFIBUS interface

PROFIBUS terminating resistor

Type	Order no.
PR-STE-END	6021156

PROFIBUS cable, 2 x 0.34 mm², by the metre

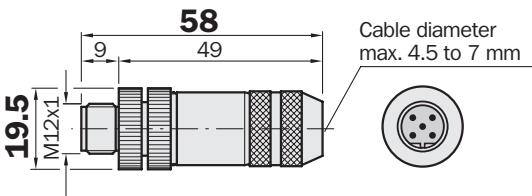
Type	Order no.
LTG-2102-MW	6021355

Technical data

Temperature range	variabel -5 ... +80 °C not variabel -40 ... +80 °C
Sheath	PUR violett Ø 8 mm
Shield	AL-PT tape

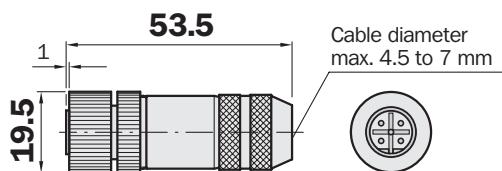
PROFIBUS male connector M12, 5-pin, Bus out, B-coding

Type	Order no.
PR-STE-1205-G	6021354



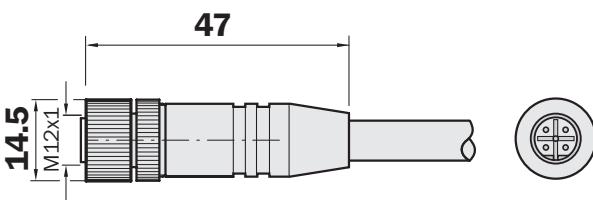
PROFIBUS female connector M12, 5-pin, Bus in, B-coded

Type	Order no.
PR-DOS-1205-G	6021353



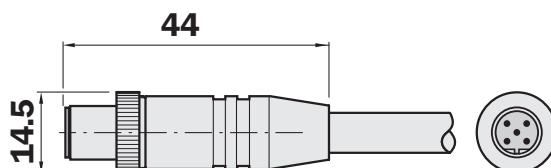
Female connector with PROFIBUS cable, Bus in, B-coding

Type	Order no.	Cable length
DOL-12PR-G05	6026006	5 m
DOL-12PR-G10	6026008	10 m



Male connector with PROFIBUS cable, Bus out, B-coding

Type	Order no.	Cable length
STL-12PR-G05	6026005	5 m
STL-12PR-G10	6026007	10 m



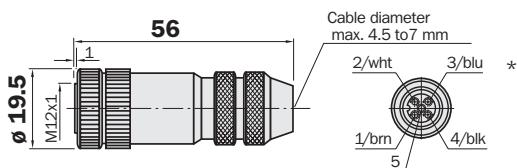
Accessories

Dimensional drawings and order information

Connectors for DeviceNet and CANOpen interface

**Female connector M12, 5-pin, straight, shielded,
360° screen can be assembled onto a knurled nut, A-coding**

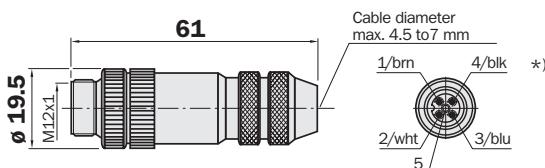
Type	Order no.
DOS-1205-GA	6027534



Male connector M12, 5-pin, straight, shielded

360° screen can be assembled onto a knurled nut, A-coding

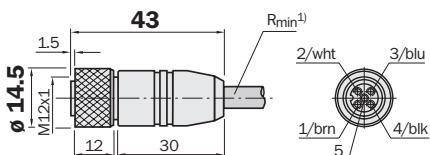
Type	Order no.
STE-1205-GA	6027533



Female connector M12, 5-pin, straight

Cable 6 m, Dropable, A-coding

Type	Order no.
DOL-1205-G06MK	6028326



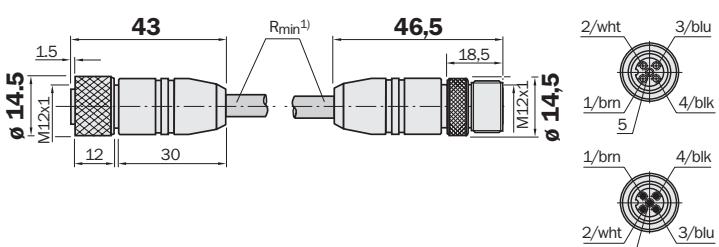
1) Minimum bend radius in dynamic use

R_{min} = 20 x cable diameter

Connection cable 6 m, M12 receptacle, 5-pin, straight

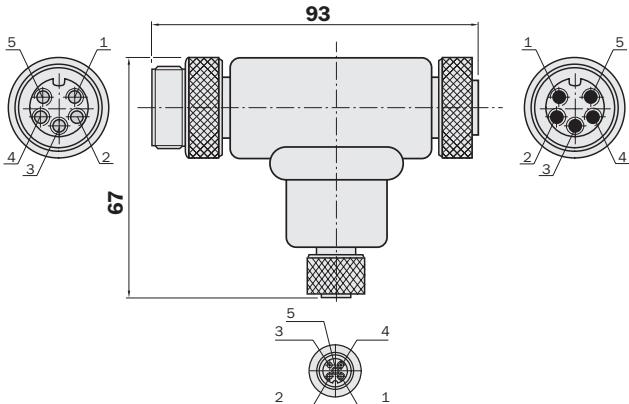
Plug M12, 5-pin, straight, Dropable, A-coding

Type	Order no.
DSL-1205-G06MK	6028327



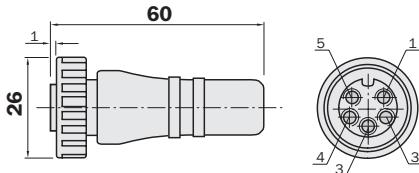
T junction box M12, 5-pin, on plug, 7/8" receptacle, 5-pin

Type	Order no.
SDO-02D78-SF	6028330



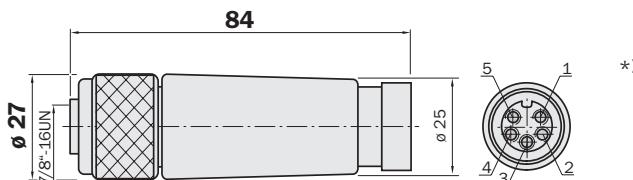
Terminating resistor, 7/8" receptacle, 5-pin, straight

Type	Order no.
DOS-7805-GKEND	6028329



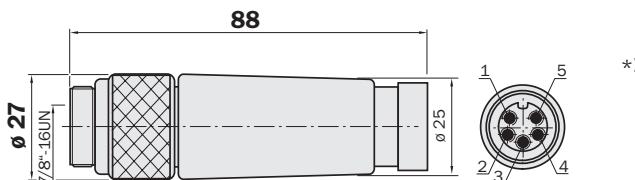
Female connector 7/8", 5-pin, straight, PG16, sizeable

Type	Order no.
DOS-7805-GK	6028331



Male connector 7/8", 5-pin, straight, PG16, sizeable

Type	Order no.
STE-7805-GK	6028332



*) Connector side

Dimensional drawings and order information

Connectors for DeviceNet and CANOpen interface

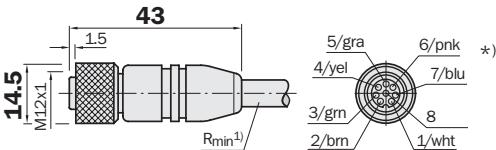
Cable, 4 x 0.34 mm², Cores, twisted pair and screened with Al-PT foil (for DME4000, DeviceNet)

Type	Order no.	Technical data
LTG-2804-MW	6028328	Temperature range variabel -10 ... +70 °C; not variabel -40 ... +70 °C
		Sheath PUR black Ø 6.8 mm
		Shield Cu tin-plated

Connectors for HIPERFACE® Interface

Female connector M12, 8-pin, cable, shielded via knurled nut, A-coding

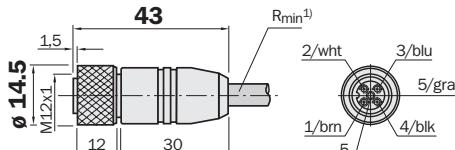
Type	Order no.	Cable length
DOL-1208-G02MAH1	6032448	2 m
DOL-1208-G05MAH1	6032449	5 m
DOL-1208-G10MAH1	6032450	10 m
DOL-1208-G20MAH1	6032451	20 m



1) Minimum bend radius in dynamic use
R_{min} = 20 x cable diameter

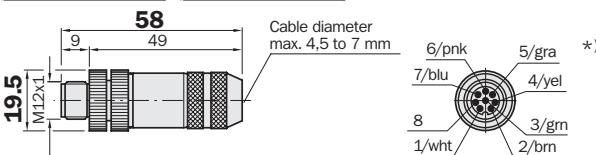
Female connector M12, 5-pin, PUR, straight, shield on knurled nut, A-coding

	Order no.	Cable length
DOL-1205-G05MAC	6036384	5 m
DOL-1205-G10MAC	6036385	10 m
DOL-1205-G20MAC	6036386	20 m



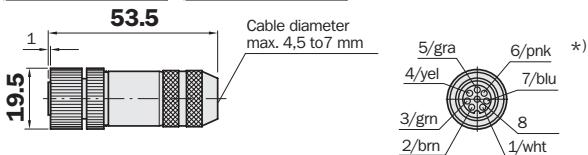
Male connector, M12, 8-pin, can be assembled,

Type	Order no.
STE-1208-G	6028370



Female connector, M12, 8-pin, can be assembled, A-coding

Type	Order no.
DOS-1208-G	6028369

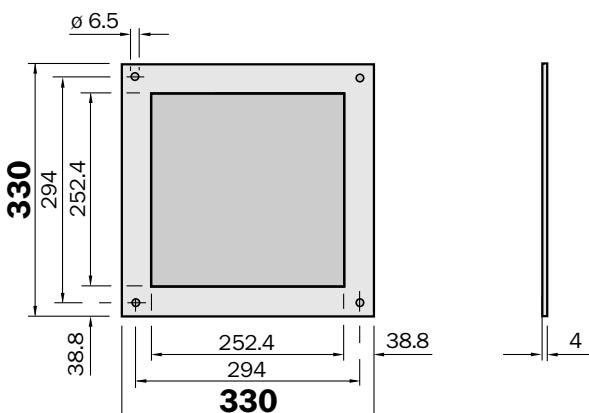
Cable , 8 x 0.25 mm², Cores, twisted pair and C-braided shield

Type	Order no.	Technical data
LTG-3108-MW	6038456	Temperature range variabel -10 ... +70 °C; not variabel -40 ... +70 °C
		Sheath PUR black Ø 6.8 mm
		Shield Cu tin-plated

Reflectors

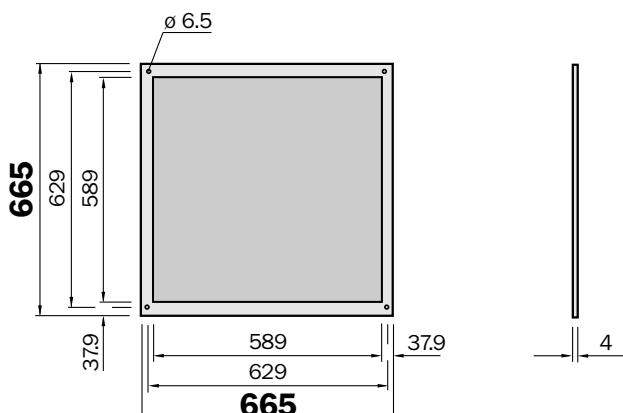
Reflector, 0.3 x 0.3 m, "Diamond Grade", mounted

Type	Order .
PL240DG	1017910



Reflector, 0.6 x 0.6 m, "Diamond Grade", mounted

Type	Order
PL560DG	1016806



*) Connector side

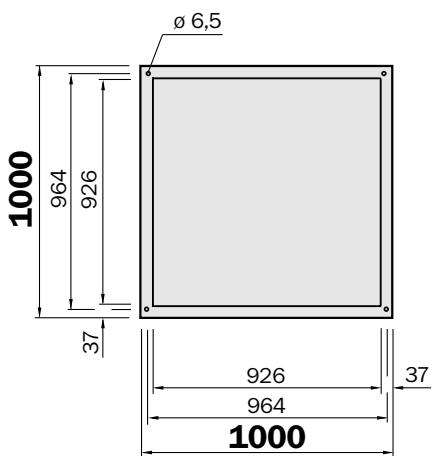
Accessories

Dimensional drawings and order information

Reflectors

Reflector, 1 x 1 m, "Diamond Grade", mounted

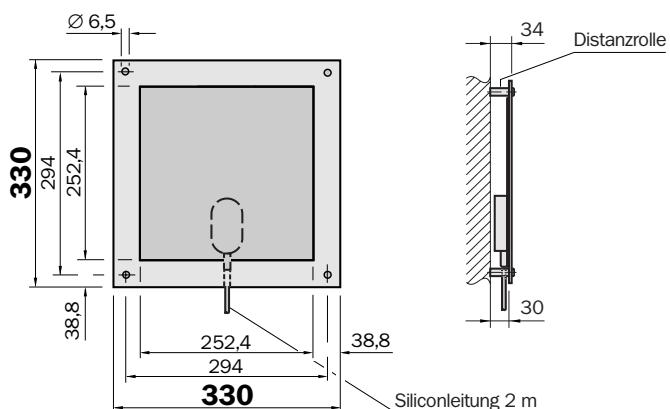
Type	Order no.
PL880DG	1018975



Reflector, 0.3 x 0.3 m, "Diamond Grade"

regulated heating 230 V AC/200 W

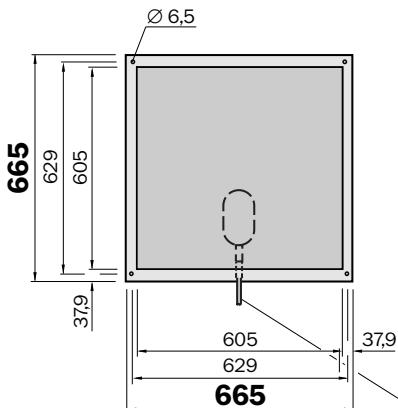
Type	Order no.
PL240DG-H	1022926



Reflector, 0.6 x 0.6 m, "Diamond Grade"

regulated heating 230 V AC/900 W

Type	Order no.
PL560DG-H	1023888



Reflective tape "Diamond Grade"

Type	Order no.
REF-DG-K	4019634

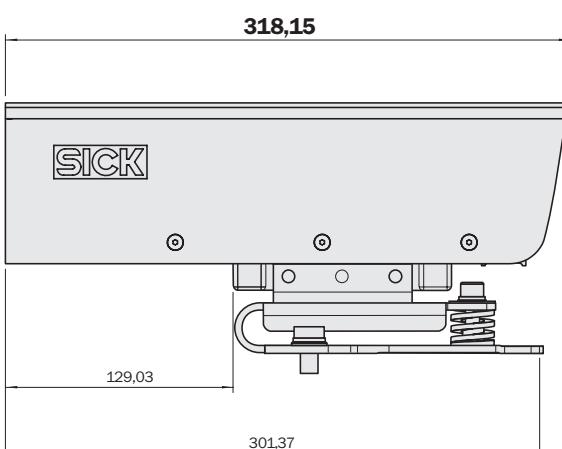
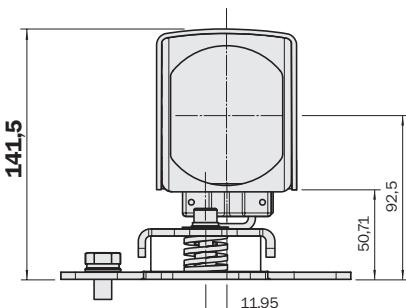
REF-DG	5304334
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Cut to size
Sheet 749 x 914 mm²

Special accessories

Weather-protecting hood

Type	Order no.
WSG-DME5	2027800

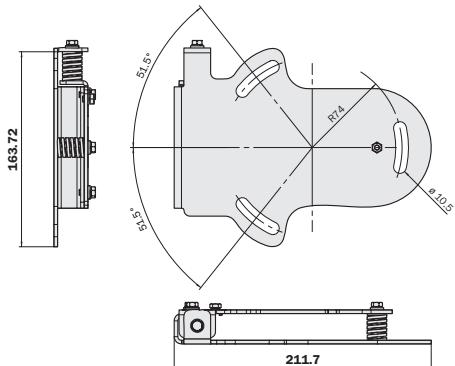


Dimensional drawings and order information

Special accessories

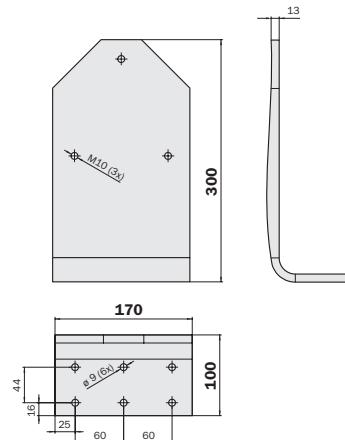
Alignment bracket DME4000 (ISD400)

Type	Order no.
BEF-DME/ISD	2046052



Mounting bracket

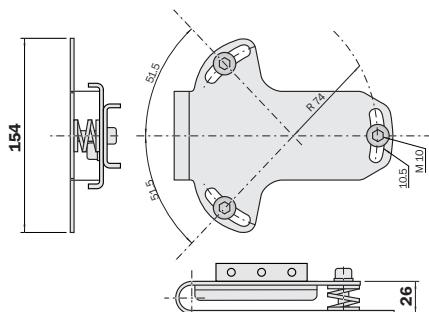
Type	Order no.
BEF-WINK-DME/ISD	2046444



Alignment bracket DME5000

Type	Order no.
BEF-AH-DME5	2027721

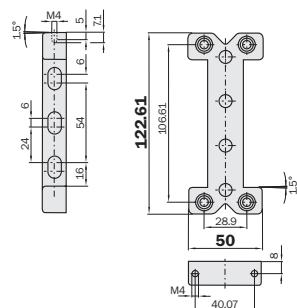
(Additional base plate mounting kit required)



Mounting kit for baseplate

Type	Order no.
BEF-DME4000	2040738

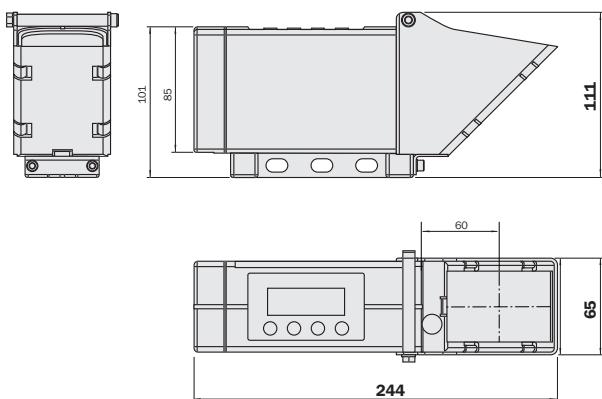
(Required for mounting on alignment bracket DME5000)



Corner mirror, deflection of light emission upward

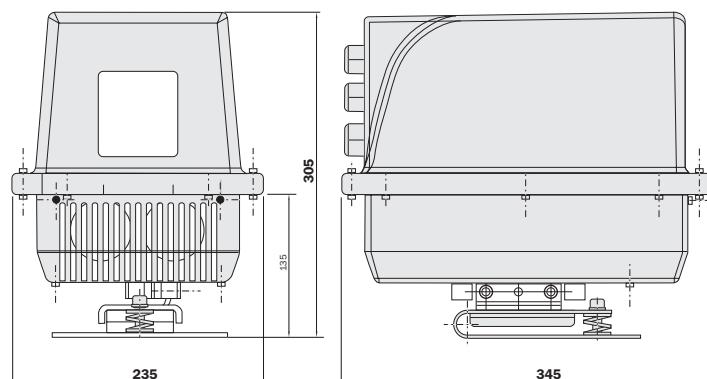
Type	Order no.
USP-DME5	2027710

(Additional base plate mounting kit required)



Thermo protection cooling case DME4000

Type	Order no.
	6036180



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Danmark Phone +45 45 82 64 00 E-Mail sick@sick.dk	Russia Phone +7 495 775 05 34 E-Mail info@sick-automation.ru
Deutschland Phone +49 211 5301-250 E-Mail info@sick.de	Schweiz Phone +41 41 619 29 39 E-Mail contact@sick.ch
España Phone +34 93 480 31 00 E-Mail info@sick.es	Singapore Phone +65 6744 3732 E-Mail admin@sicksgp.com.sg
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Great Britain Phone +44 (0)1727 831121 E-Mail info@sick.co.uk	Sverige Phone +46 10 110 10 00 E-Mail info@sick.se
India Phone +91-22-4033 8333 E-Mail info@sick-india.com	Taiwan Phone +886 2 2365-6292 E-Mail sickgrc@ms6.hinet.net
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