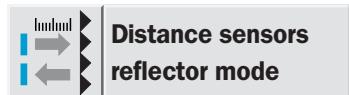


DME4000: distance measurement in millisecond cycles



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 electronics unit determines the position of the storage and retrieval unit from this time 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. Warehouse type-specific versions for positioning processes at maximum speeds. 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 two range-optimised versions for 50 m and 130 m.

SICK

DME4000 Distance measuring device, SSI

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

- Short positioning processes:
very fast measuring time
- High degree of system availability: highest accuracy and reproducibility
- Convenient operation startup:
illuminated LCD display with diagnosis information
- Easy assembly and alignment concept: alignment bracket with spring/visible red light



ssi

  c  LISTED

 Laser class 2

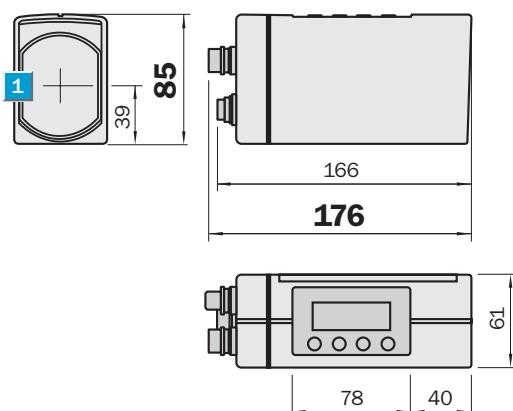
Accessories

Connectors

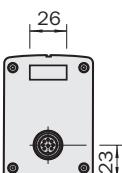
Mounting systems

Dimensional drawing

All types

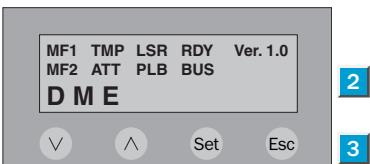


Back sight



Adjustments possible

All types



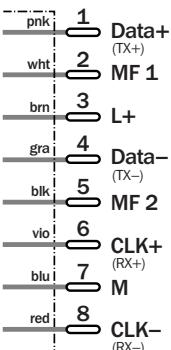
- 1 Centre of optical axis
- 2 LC display
- 3 Entry range

Connection type



Connections

8-pin, M16

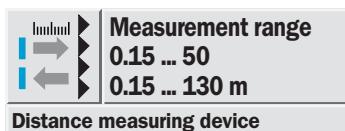


Technical Data	DME4000-	111	121	211	221					
Measurement range ¹⁾	0.15 ... 50 m 0.15 ... 130 m									
Accuracy	±3 mm ±5 mm									
Reproducibility ²⁾	1 mm 2 mm									
Light spot diameter	max. 130 mm at 70 m max. 270 mm at 150 m									
Resolution (adjustable)	0.05 ... 5 mm									
Light source 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 class ⁸⁾	□									
Enclosure rating	IP 65									
Ambient temperature	Operation -10 °C ... +55 °C with heating -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 2 ms									
Initialisation period	500 ms									
Max. running speed	10 m/s									
EMC	EN 61000-6-2, EN 55011: class B									
Mechanical load	Shock: EN 600 68-2-27/-2-29 Sine: EN 600 68-2-6									
	Noise: EN 600 68-2-64									

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 DC**Order information**

Type	Order no.
DME4000-111	1029789
DME4000-121	1029792
DME4000-211	1029790
DME4000-221	1029794

DME4000 Distance measuring device, PROFIBUS



- Short positioning processes:
very fast measuring time
- High degree of system availability: highest accuracy and reproducibility
- Convenient operation startup:
illuminated LCD display with diagnosis information
- Easy assembly and alignment concept: alignment bracket with spring/visible red light



PROFI
BUS

CE **cUL US**
LISTED

Laser class 2

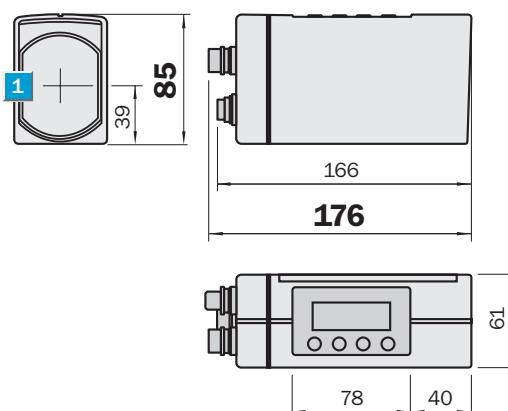
Accessories

Connectors

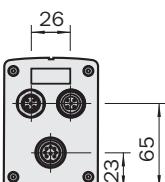
Mounting systems

Dimensional drawing

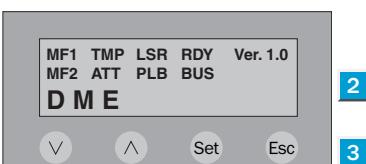
All types



Back sight

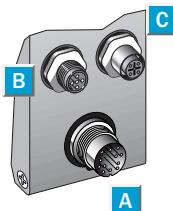


Adjustments possible



- 1 Centre of optical axis
- 2 LC display
- 3 Entry range

Connection type



Connections

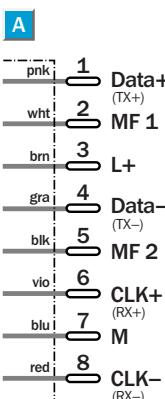
8-pin, M16

5-pin, M12

5-pin, M12

Bus in

Bus out



Technical Data	DME4000-	112	122	212	222					
Measurement range ¹⁾	0.15 ... 50 m 0.15 ... 130 m									
Accuracy	±3 mm ±5 mm									
Reproducibility ²⁾	1 mm 2 mm									
Light spot diameter	max. 130 mm at 70 m max. 270 mm at 150 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 class ⁸⁾	□									
Enclosure rating	IP 65									
Ambient temperature	Operation -10 °C ... +55 °C with heating -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	500 ms									
Max. running speed	10 m/s									
EMC	EN 61000-6-2, EN 55011: class B									
Mechanical load	Shock: EN 600 68-2-27/-2-29 Sine: EN 600 68-2-6									
	Noise: EN 600 68-2-64									

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 DC

Order information	
Type	Bestell-Nr.
DME4000-112	1029788
DME4000-122	1029793
DME4000-212	1029791
DME4000-222	1029795

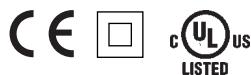
DME4000 Distance measuring device, RS 422

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

- Short positioning processes:
very fast measuring time
- High degree of system availability: highest accuracy and reproducibility
- Convenient operation startup:
illuminated LCD display with diagnosis information
- Easy assembly and alignment concept: alignment bracket with spring/visible red light



RS 422



 Laser class 2

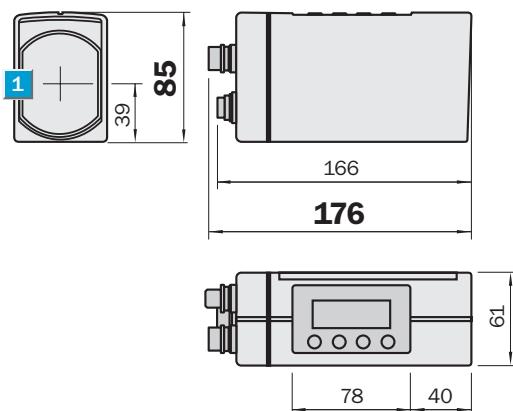
Accessories

Connectors

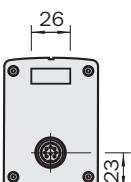
Mounting systems

Dimensional drawing

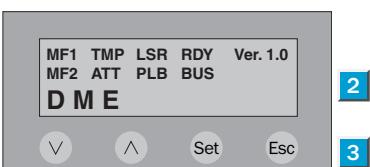
All types



Back sight



Adjustments possible



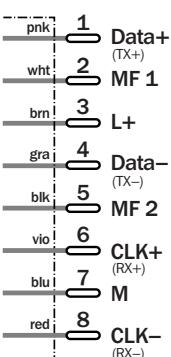
- 1 Centre of optical axis
- 2 LC display
- 3 Entry range

Connection type



Connections

8-pin, M16



Technical Data	DME4000-	113	123	213	223					
Measurement range ¹⁾	0.15 ... 50 m 0.15 ... 130 m									
Accuracy	±3 mm ±5 mm									
Reproducibility ²⁾	1 mm 2 mm									
Light spot diameter	max. 130 mm at 70 m max. 270 mm at 150 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 class ⁸⁾	□									
Enclosure rating	IP 65									
Ambient temperature	Operation -10 °C ... +55 °C with heating -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	500 ms									
Max. running speed	10 m/s									
EMC	EN 61000-6-2, EN 55011: class B									
Mechanical load	Shock: EN 600 68-2-27/-2-29 Sine: EN 600 68-2-6									
	Noise: EN 600 68-2-64									

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 DC

Order information	
Type	Order no.
DME4000-113	1029796
DME4000-123	1029797
DME4000-213	1029798
DME4000-223	1029799

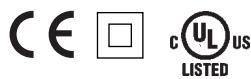
DME4000 Distance measuring device, Hipercface

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

- Short positioning processes: very fast measuring time
- High degree of system availability: highest accuracy and reproducibility
- Convenient operation startup: illuminated LCD display with diagnosis information
- Easy assembly and alignment concept: alignment bracket with spring/visible red light



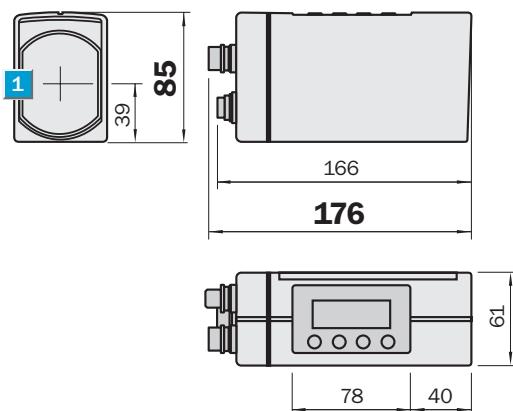
HIPERFACE®
by SICK|STEGMANN



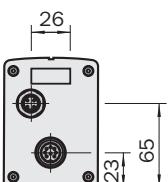
 Laser class 2

Dimensional drawing

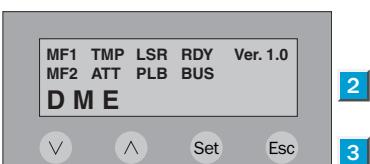
All types



Back sight

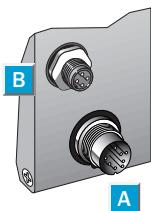


Adjustments possible



- 1 Centre of optical axis
- 2 LC display
- 3 Entry range

Connection type



Connections

8-pin, M12

A	1	REF sin
wht	2	+ sin
brn	3	REF cos
grn	4	+ cos
yel	5	Data +
gra	6	Data -
pnk	7	GND
blu	8	NC

4-pin, M12

B	1	L+
brn	2	MF2
wht	3	M
blu	4	MF1
blk		

Accessories

Connectors

Mounting systems

Technical Data	DME4000-	117	127	217	227					
Measurement range ¹⁾	0.15 ... 50 m 0.15 ... 130 m									
Accuracy	±3 mm ±5 mm									
Reproducibility ²⁾	1 mm 2 mm									
Light spot diameter	max. 130 mm at 70 m max. 270 mm at 150 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 class ⁸⁾	□									
Enclosure rating	IP 65									
Ambient temperature	Operation -10 °C ... +55 °C with heating -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	900 ms									
Max. running speed	10 m/s									
EMC	EN 61000-6-2, EN 55011: class B									
Mechanical load	Shock: EN 600 68-2-27/-2-29 Sine: EN 600 68-2-6									
	Noise: EN 600 68-2-64									

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 DC

Order information	
Type	Order no.
DME4000-117	1029807
DME4000-127	1029812
DME4000-217	1029806
DME4000-227	1029804

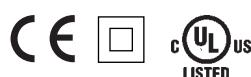
DME4000 Distance measuring device, DeviceNet

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

- Short positioning processes: very fast measuring time
- High degree of system availability: highest accuracy and reproducibility
- Convenient operation startup: illuminated LCD display with diagnosis information
- Easy assembly and alignment concept: alignment bracket with spring/visible red light



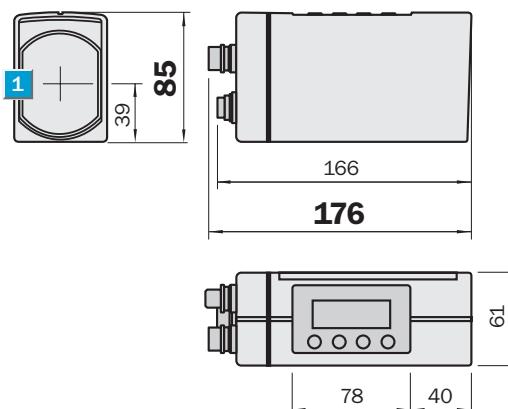
DeviceNet
Component Test



Laser class 2

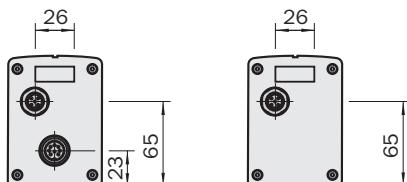
Dimensional drawing

All types

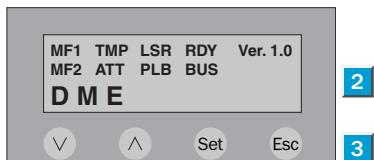


Back sight

DME4000-xx4 DME4000-xx5



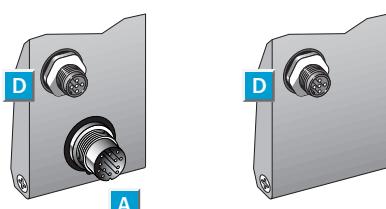
Adjustments possible



- 1 Centre of optical axis
- 2 LC display
- 3 Entry range

Connection type

DME4000-XX4 DME4000-XX5

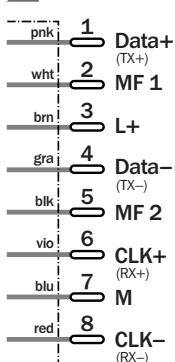


Connections

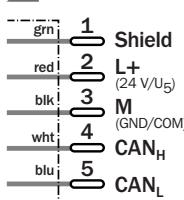
8-pin, M16

5-pin, M12
Bus in

A



D



Accessories

Connectors

Mounting systems

Technical Data	DME4000-	114	115	124	214	215	224			
Measurement range ¹⁾	0.15 ... 50 m									
	0.15 ... 130 m									
Accuracy	±3 mm									
	±5 mm									
Reproducibility ²⁾	1 mm									
	2 mm									
Light spot diameter	max. 130 mm at 70 m									
	max. 270 mm at 150 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 class ⁸⁾	□									
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	500 ms									
Max. running speed	10 m/s									
EMC	EN 61000-6-2, EN 55011: class B									
Mechanical load	Shock: EN 600 68-2-27/-2-29									
	Sine: EN 600 68-2-6									
	Noise: EN 600 68-2-64									

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 DC

Order information	
Type	Order no.
DME4000-114	1029800
DME4000-115	1029801
DME4000-124	1029808
DME4000-214	1029802
DME4000-215	1029803
DME4000-224	1029805

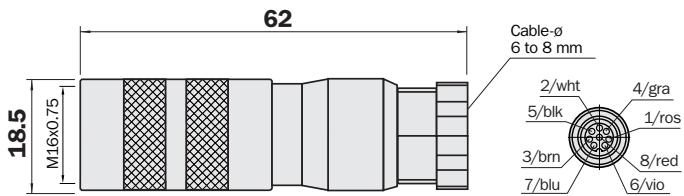
Connectors

Dimensional drawings and order information

Connectors for PROFIBUS, SSI and RS-422 interface

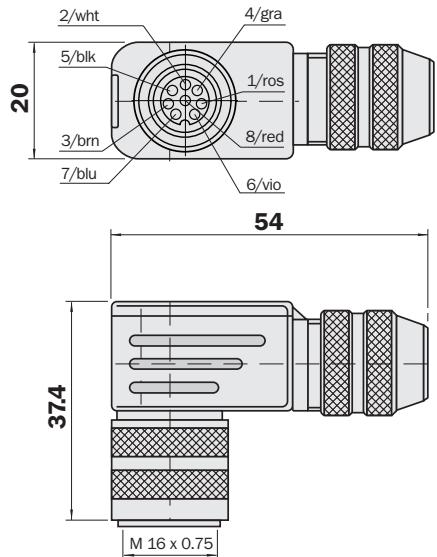
Female connector M16, 8-pin, straight

Type	Order no.
DOS-1608-GA	6025726



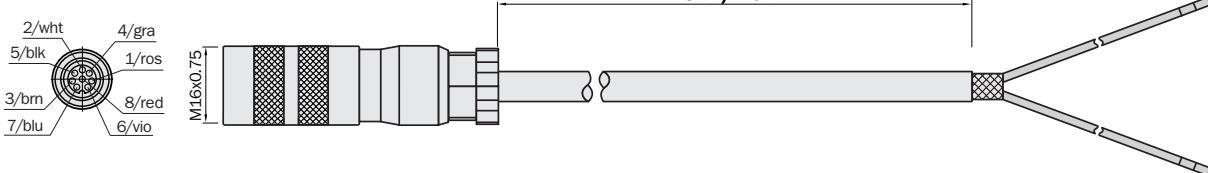
Female connector M16, 8-pin, right angle

Type	Order no.
DOS-1608-WA	6025727



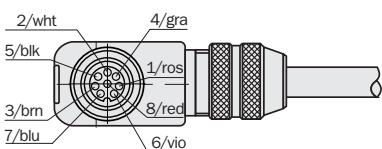
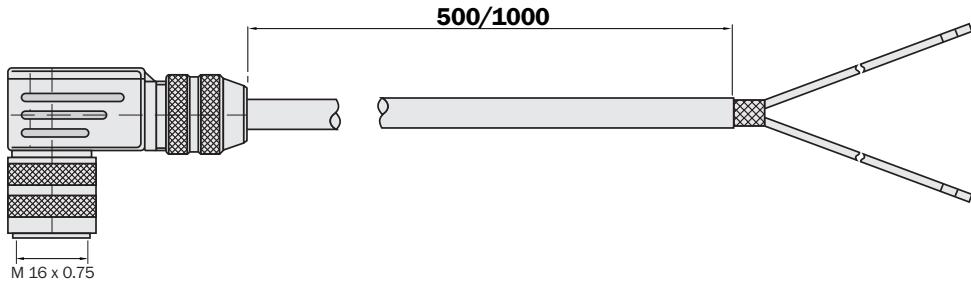
Female connector M16, 8-pin, straight

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



Female connector M16, 8-pin, right angle

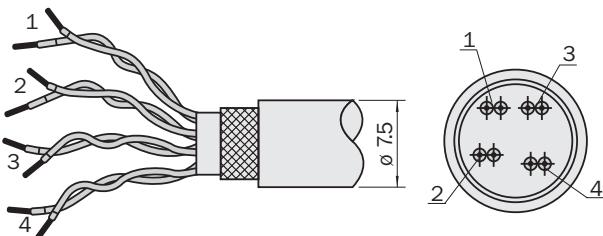
Type	Order no.	Cable length
DOL-1608-W05MA	2026743	5 m
DOL-1608-W10MA	2027194	10 m



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



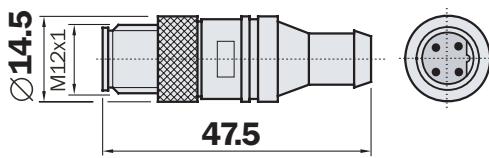
Technical data

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

Connectors for PROFIBUS interface

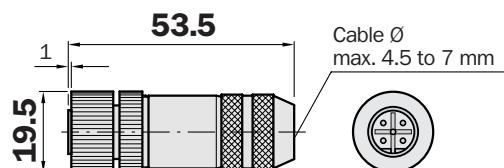
PROFIBUS terminal resistor

Type	Order no.
PR-STE-END	6021156



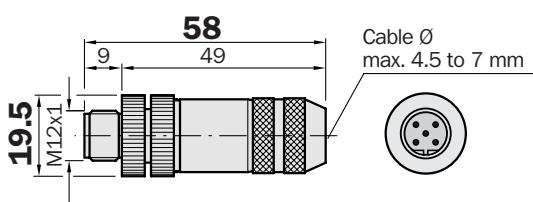
PROFIBUS female connector M12, 5-pin, Bus in

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



PROFIBUS male connector M12, 5-pin, Bus out

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

PROFIBUS cable, 2 x 0.34 mm², by the metre

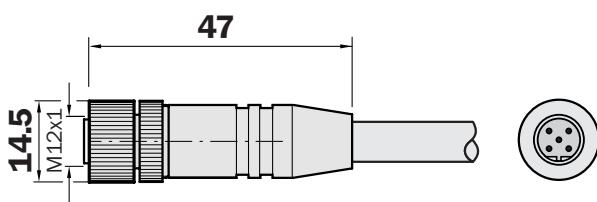
Type	Order no.
LTG-2102-MW	6021355

Technical data

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

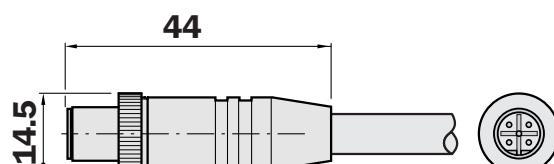
Female connector with PROFIBUS cable, Bus in

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



Male connector with PROFIBUS cable, Bus out

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



Accessories

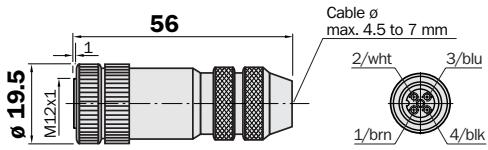
Dimensional drawings and order information

Connectors for DeviceNet interface

Female connector M12, 5-pin, straight, shielded

360° screen can be assembled onto a knurled nut

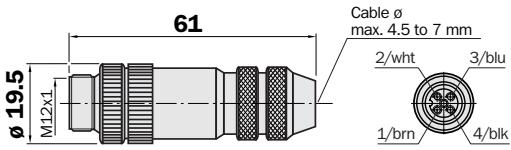
Type	Order no.
DOS-1205-GA	6027534



Male connector M12, 5-pin, straight, shielded

360° screen can be assembled onto a knurled nut

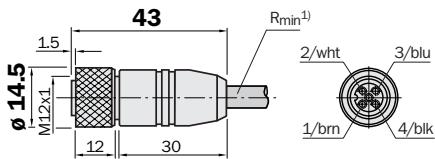
Type	Order no.
STE-1205-GA	6027533



DeviceNet female connector M12, 5-pin, straight

Cable 6 m, Dropable

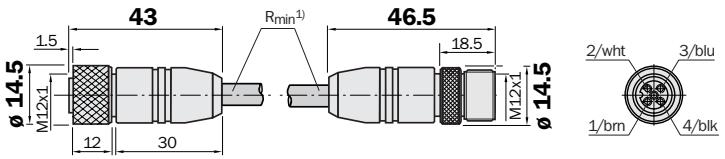
Type	Order no.
DOL-1205-G06MK	6028326



DeviceNet connection cable 6 m, M12 receptacle, 5-pin, straight

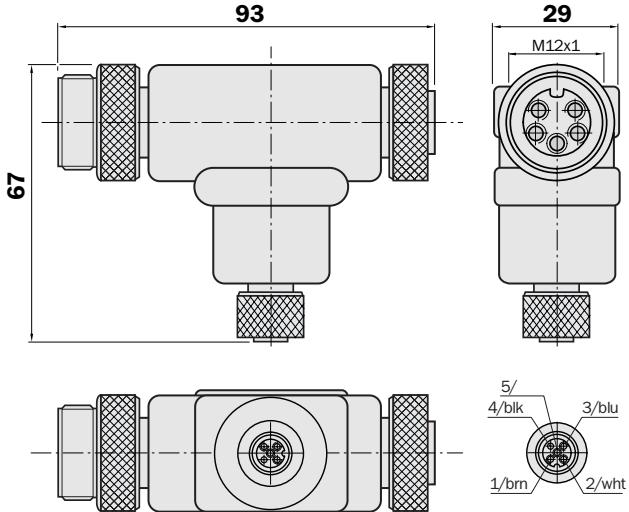
Plug M12, 5-pin, straight, Dropable

Type	Order no.
DSL-1205-G06MK	6028327



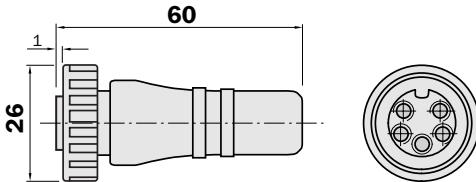
DeviceNet T junction box M12, 5-pin, on plug, 7/8" receptacle, 5-pin

Type	Order no.
SDO-02D78-SF	6028330



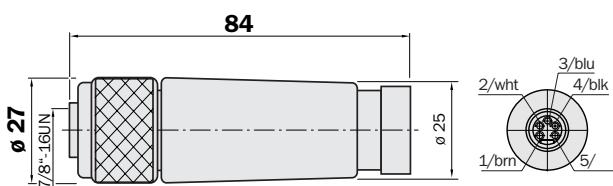
DeviceNet terminating resistor, 7/8" receptacle, 5-pin, straight

Type	Order no.
DOS-7805-GKEND	6028329



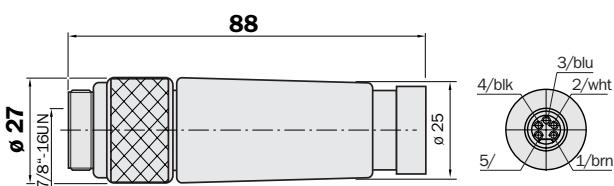
DeviceNet female connector 7/8", 5-pin, straight, PG16, sizeable

Type	Order no.
DOS-7805-GK	6028331



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

Type	Order no.
STE-7805-GK	6028332



Dimensional drawings and order information

Connectors for DeviceNet 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

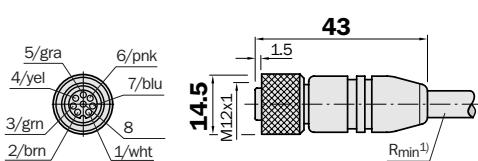
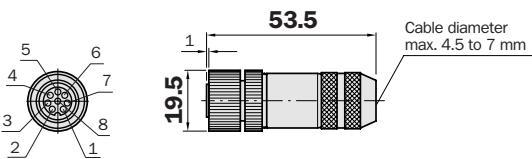
Connectors for Hiperface Interface

Female connector, 8-pin, can be assembled, PG9

Type	Order no.
DOS-1208-GA	6028369

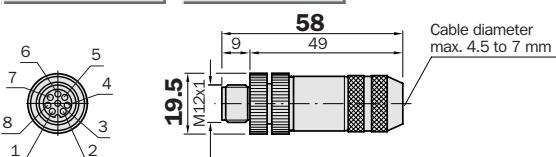
Female connector M12, 8-pin, cable, shielded via knurled nut

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



Male connector, 8-pin, can be assembled, PG9

Type	Order no.
STE-1208-G	6028370



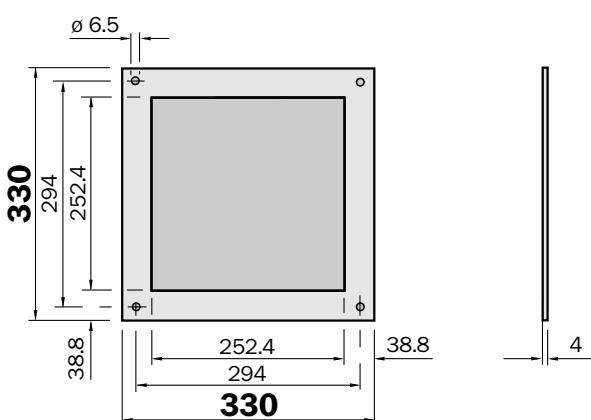
Cable, 8-pin

Type	Order no.
LTG-3108-MW	6032456

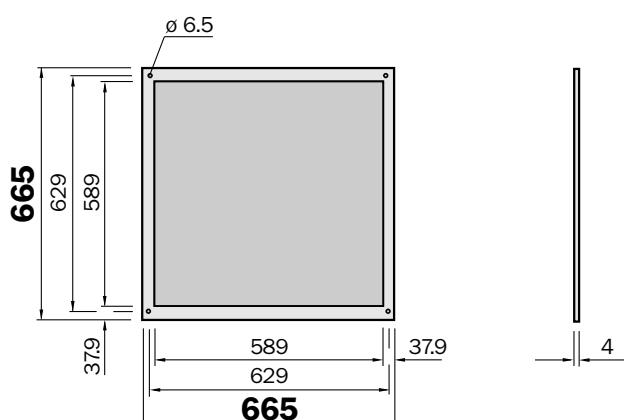
Reflectors

Reflector, 0.3 x 0.3 m², "Diamond Grade", mounted

Type	Order no.
PL 240 DG	1017910

Reflector, 0.6 x 0.6 m², "Diamond Grade", mounted

Type	Order no.
PL 560 DG	1016806



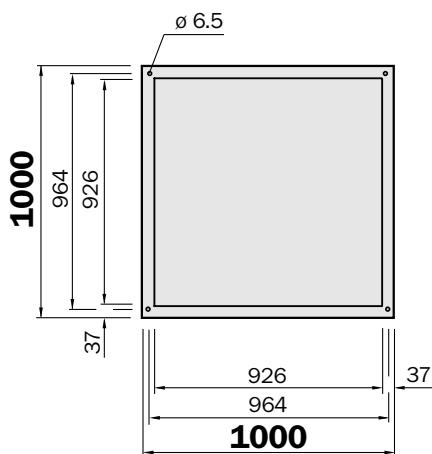
Accessories

Dimensional drawings and order information

Reflectors

Reflector, 1 x 1 m², "Diamond Grade", mounted

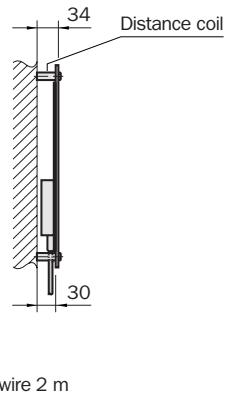
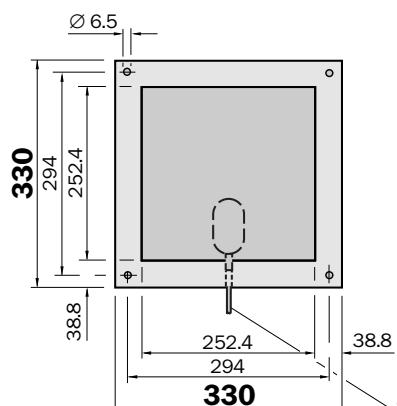
Type	Order no.
PL 880 DG	1018975



Reflector, 0.3 x 0.3 m², "Diamond Grade"

regulated heating 230 V AC/200 W

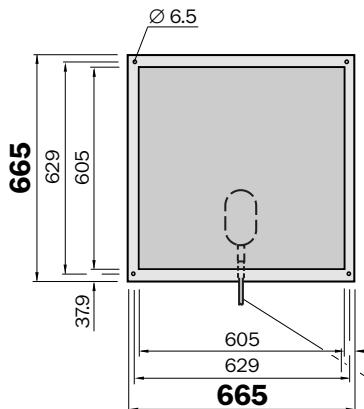
Type	Order no.
PL 240 DG-H	1022926



Reflector, 0.6 x 0.6 m², "Diamond Grade"

regulated heating 230 V AC/900 W

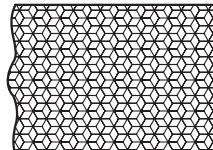
Type	Order no.
PL 560 DG-H	1023888



Reflective tape "Diamond Grade"

Type	Order no.
REF-DG-K	4019634
REF-DG	5304334

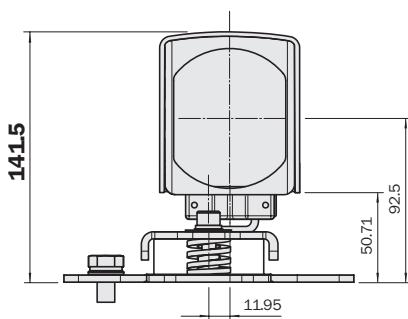
Cut to size
Sheet 749 x 914 mm²



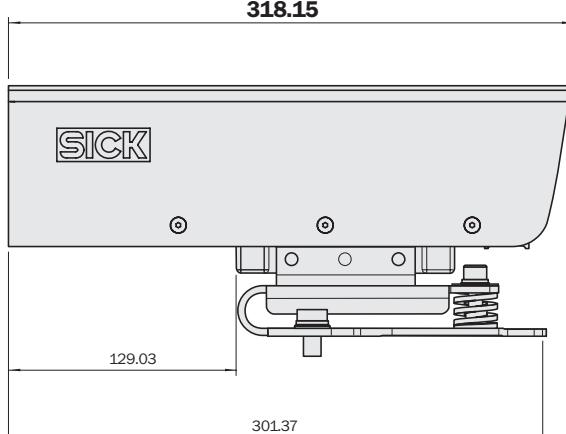
Special accessories

Weather-protecting hood

Type	Order no.
WSG-DME5	2027800



318.15

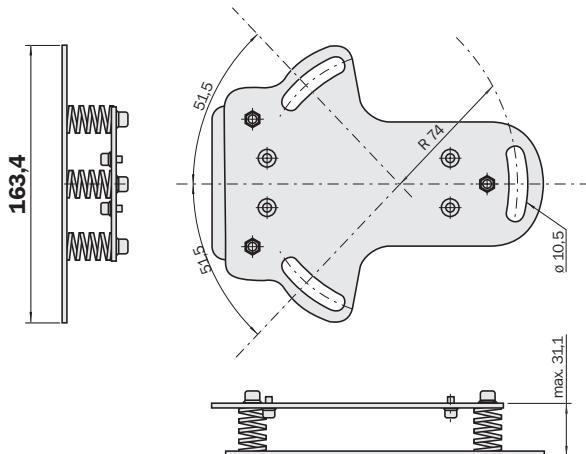


Dimensional drawings and order information

Reflectors

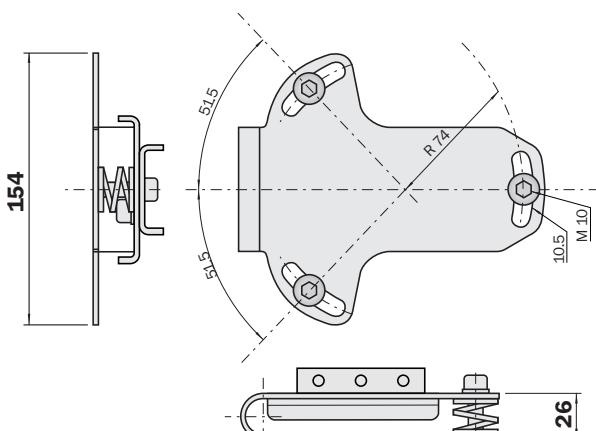
Alignment bracket DME 4000

Type	Order no.
BEF-DME	2040695



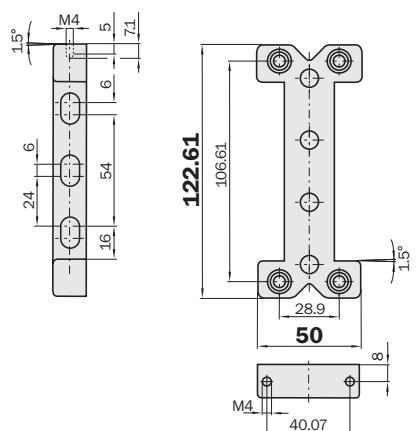
Alignment bracket DME5000

Type	Order no.
BEF-AH-DME5	2027721



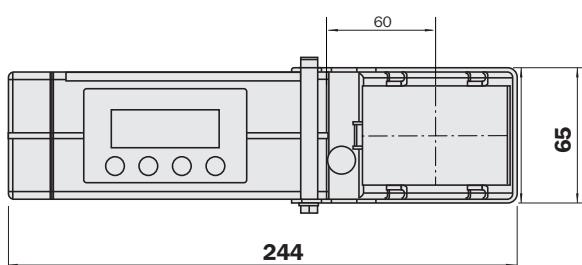
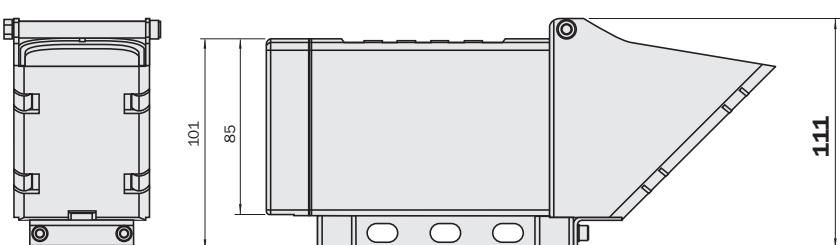
Mounting kit for baseplate (needed for DME 4000)

Type	Order no.
BEF-DME4000	2040738



Corner mirror, deflection of light emission upward

Type	Order no.
USP-DME5	2027710



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