

Presented By: Physicom Corp. Phone: 416 754 3168 Fax: 416 754 2351 Email: sales@physicomcoro.com



Potentiometric Displacement Sensors

Models 8710, 8711

Code:	8710 EN
Delivery:	ex stock
Warranty:	24 months



- Measurement ranges 0 ... 25 mm to 0 ... 150 mm
- Non-linearity: max. ± 0.05 %
- Duration: 10⁸ operations
- Displacement speed: up to 10 m/s
- Drive free of lateral forces caused by ball joint coupling
- Integrated cable or plug connection

Application

Displacement sensors models 8710 and 8711 with resistance tracks made of conductive plastic material are designed for a direct and accurate measuring of mechanical displacements. A special ball joint coupling is mountable on both ends of the driving rod. Because of this the sensor may be used free of clearance or lateral forces also with angular or parallel misalignment between sensor and measuring device.

A special multi-fingered slider provides a good electrical contact also at high adjustment speeds or vibrations.

Areas of application are:

- Electromagnets
- Switch and button deflections
- Pneumatic cylinders
- Press-fits (longitudinal press-fits)
- ► Hydraulic cylinders
- Measurements of deformation and bending
- Length tolerances
- Feeding paths

Description

Due to the technology employed in potentiometric displacement sensors, they always operate with a sliding contact system. Special processes are applied to give the resistance tracks low friction, low tendency to stick/slip, resistance to abrasion and long-term stability.

The driving rods are guided in long-life, low-friction sliding bearings with close tolerances; this results in highly precise measurements. Lateral forces reduce the service life and can be avoided by using, for instance, ball joint couplings, included in the burster product range.

Due to the pump effect, the driving rod has double sliding bearings.

Mounting

The sensor is mounted at the left and right longitudinal slot by four mounting angles.

These slots (W = 2.2 mm, D = 1.6 mm) are closed at the side of the electrical connector.





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Technical Data * without mounting parts ** total mechanical deflec								
Order Code	Measuring Range [mm]	Non Linearity *	A	imensions [mi B **	m] C	Dissipation at 40 °C (0W at 120 °C)	Total Weight	Moveable Weight
8710 - 25	0 25	± 0.2 % F.S.	63	30	107	0.6 W	83	32
8710 - 50	0 50	± 0.1 % F.S.	88	55	157	1.2 W	102	40
8710 - 75	0 75	± 0.1 % F.S.	113	80	207	1.8 W	121	48
8710 - 100	0 100	± 0.1 % F.S.	138	105	257	2.5 W	140	56
8710 - 150	0 150	± 0.1 % F.S.	188	155	357	3.6 W	178	72
8711 - 25	0 25	± 0.2 % F.S.	63	30	107	0.6 W	83	32
8711 - 50	0 50	± 0.1 % F.S.	88	55	157	1.2 W	102	40
8711 - 75	0 75	± 0.1 % F.S.	113	80	207	1.8 W	121	48
8711 - 100	0 100	± 0.1 % F.S.	138	105	257	2.5 W	140	56
8711 - 150	0 150	± 0.05 % F.S.	188	155	357	3.6 W	178	72

Electrical values

Resistance:	measurement ra measurement ra	1 kΩ nm 5 kΩ		
Tolerance of resis	stance:			± 20 %
Max. voltage:	measurement r measurement r	ange anges	25 mm 50 150 r	25 V DC nm 60 V DC
Operating current	in slider circuit:	recom maxim	mended ium	< 0.1 µA 10 mA
(>	0.1 µA: negative	influenc	ce to linearity	y and duration)
Dissipation:				refer to table
Insulation resistan	ice:	> 100	$0 M\Omega at 500$	V DC, 2 s, bar
Voltage resistance	e: < 100	0 µA at \$	500 V AS, 50) Hz, 2 s, 1 bar
Environmen	tal conditi	ons		
Operation temperation	ature range:		- 3	0 °C 100 °C
Storage temperate	ure range:		- 5	0 °C 120 °C
Influence of tempe to resistance to output volta	erature: age		- 200	± 200 ppm/°C < 1.5 ppm/°C
Mechanical	values			
Non-linearity:				refer to table
Resolution:				0.01 mm
Displacement force	e, horizontal:			≤ 0.3 N
Displacement spe	ed:			≤ 10 m/s
Vibration resistance	ce: 5 20	00 Hz, A	A _{max} = 0,75 n	nm, a _{max} = 20 g
Shock resistance:				50 g, 11 ms
Radial clearance of	of driving rod:			≤ 0.015 mm
Flexibility of ball jo	pint coupling:		parallel angle	± 0.5 mm ± 10 °
Protection class:		acc. to	EN 60529	IP40
Electrical connect	ion:		plua co	nnection 5 pin

(Mating connector model 9991 refer to accessories)

integrated connection cable, length 1 m, model 8711 cross section 4 mm



Important:

The excellent characteristics of the sensor are evident, if the slider load in the voltage divider is < 0.1 μ A. If the measurement chain requires higher currents, an operational amplifier should be used, connected as a voltage follower (I < 0.1 µA) (see diagram above).

Mounting:

with two 2 axial moveable clips, refer to diagram (in scope of delivery) **Dimensional drawings**



The CAD drawing (3D/2D) for this sensor can be imported online directly into your CAD system.

Download via www.burster.com or directly at www.traceparts.com. For further information about the burster traceparts cooperation refer to data sheet 80-CAD-EN.

Order Information

Potentiometric displacement sensor

Evaluation units and amplifiers like digital indicator 9180, amplifier 9243, USB sensor interface 9206 or DIGIFORCE $^{\odot}$

refer to section 9 of the catalog.

Manufacturers calibration certificate (WKS)

Calibration of the displacement sensor with or without evaluation electronics in 20 % increments of the measurement range (6 points).



Potentiometric Displacement Sensors

Models 8712, 8713





- Non-linearity from 0.05 % F.S.
- **Durability 10⁸ operations**
- **Resolution 0.01 mm**
- Follower roll on request
- Optional with internal spring

Application

These displacement sensors are potentiometric displacement sensors used for direct measurement, testing and monitoring of mechanical displacements. The spring-loaded control rod eliminates the need of coupling with the measurement obiect.

A prerequisite for a very long life duration of the devices is a parallel alignment of the motion direction of the measurement object and the rod.

Areas of application are:

Displacement on

- Electromagnets ►
- Hydraulic cylinders
- Switches and buttons
- Measurements of
- Deformation ►
- Bending
- Press-fits
- Feed strokes

Description

Due to the technology employed in potentiometric displacement sensors, they always operate with a sliding contact system. Special processes are applied to give the resistance tracks low friction, low tendency to stick/slip, resistance to abrasion and a long-term stability.

The rods are guided in long-life, low friction sliding bearings with close tolerances which provide high durability and measuring quality. The pre-stressed spring presses the sensor tip against the measurement object. This spring is double-guided and disappears in the probe head, if the rod is in its end position.

The probe tip consists of a ball made of stainless steel. The bore at rod end serves for coupling retraction units.

The rod is protected against twist for measurement ranges up to 50 mm. The probe tip (hexagonal) must not be turned by any tool, otherwise its anti-twist protection will be destroyed.



Technical Data										*length of housing **total mechanical deflection			
Order Code	Measuring Range	۸*	Dimensions [mm] -V302					Non- Linearity [% F.S.]	Total Mass	Moveable Mass	Dissipation at 40 °C		
0710 10		A			100	A		0			00.	10.	0.0.14/
8/12 - 10	10	48	16	32	108	60.8	6.5	15	95.3	± 0.3	60 g	18 g	0.2 W
8712 - 25	25	63	31	32	138	75.8	19.7	30	138.5	± 0.2	75 g	23 g	0.6 W
8712 - 50	50	88	56	40	196	112.7	14.2	55	194.9	± 0.1	95 g	33 g	1.2 W
8712 - 100	100	139	106	40	307	185.1	13.4	105	316.5	± 0.1	140 g	50 g	2.2 W
8712 - 125	125	163	148	40	364	221.6	13.4	130	378	± 0.05	190 g	58 g	2.2 W
8712 - 150	150	188	186	40	427	270.1	13.4	155	451.5	± 0.05	245 g	66 g	2.2 W
8713 - 10	10	48	15	32	108	60.8	6.5	15	95.3	± 0.3	60 g	18 g	0.2 W
8713 - 25	25	63	30	32	138	75.8	19.7	30	138.5	± 0.2	75 g	23 g	0.6 W
8713 - 50	50	88	55	40	196	112.7	14.2	55	194.9	± 0.1	95 g	33 g	1.2 W
8713 - 100	100	138	115	40	298	185.1	13.4	105	316.5	± 0.1	140 g	50 g	2.2 W
8713 - 125	125	163	148	40	364	221.6	13.4	130	378	± 0.05	190 g	58 g	2.2 W
8713 - 150	150	188	186	40	427	270.1	13.4	155	451.5	± 0.05	245 g	66 g	2.2 W

Electrical values Docistopoor

nesistance.		
measuring range	10 mm and 25 mm	1 kΩ
measuring range	50 mm up to 150 mm	5 kΩ
Tolerance of resistance	e:	± 20 %
Max. operating voltage	e:	
measuring range	10 mm	14 V
measuring range	25 mm	25 V
measuring range	50 mm up to 150 mm	60 V
Recommended curren	t in slider circuit:	< 0.1 µA
Max. current in slider of	circuit:	10 mA
(> 0.1 µ	A negative influence to	b linearity and durability)
Insulation resistance:		> 100 MΩ at 500 V
Electrical strength:		500 V _{eff} at 50 Hz
Environmontal	conditions	0.1
Storage temperature r		50 °C 120 °C
Storage temperature r	ange.	- 50 C 120 C
Nominal temperature i	range:	- 30 °C 100 °C
iemperature coefficier	1 t :	
of connection resis	stance	$max 200 \pm 200 \text{ ppm/K}$
or output voltage		< 1.5 pp///K
Mechanical va	lues	
Non-linearity:		refer to table
Resolution (mechanica	ally from slider):	0.01 mm
Durability:	$> 25 \times 10^6$ m strokes,	or 100 x 10 ⁶ operations,
ý V	hichever is less (within	useful electrical stroke)
Displacement force, he	orizontal:	≤ 4 N
Displacement speed:		max. 10 m/s
Endurance limit:	5 20	000 Hz. A = 0.75 mm.
		a = 20 q
Shock resistance:		50 g, 11 ms
Protection class:	acc. to EN 60529	P IP40
Material:	housing	aluminium anodized
Waterial.	rod	stainless steel AISI 303
Electrical connection:	100	
model 8712		Plug-in connector 5 pin
model 8713	connecting ca	ble length 1 m ø 4 mm

Important:

The excellent characteristics of these sensors are only evident when the slider current is < 0.1 μ A. If the measuring chain requires higher currents, it is recommended to use an operational amplifier connected as a voltage follower (I < 0.1 μ A).

Dimensional drawings





Dimensional drawings





The CAD drawing (3D/2D) for this sensor can be imported online directly into your CAD system. Download via www.burster.com or directly at www.traceparts.com.

Scope of delivery:

Sensor 8712, mating connector 9991, probe tip 8707, Mounting set 8710-Z001, test and calibration certificate. Sensor 8713, probe tip 8707, mounting set 8710-Z001, test and calibration certificate.

Accessories

PHYSICOM

Probe tip (Ball $\phi = 3$)	Model 8707
Mounting set (4 angle + 4 M4 screws)	Model 8710-Z001
Tip with roller bearing for displacement	sensor Model 8708
Further probe tip	on request
for Model 8712:	
Mating connector, 5 pin	Model 9991
Mating connector, 5 pin, 90° outlet	Model 9900-V590
Connecting cable, length 3 m, betwee	en 8712 and -
One end open	Model 99130
9180 or 9186 desktop version	Model 99132
DIGIFORCE [®] 9307, 9310, 9311	Model 99209-591A-0090030
SENSORMASTER 9163 desktop version	Model 99209-591B-0090030
ForceMaster 9110	Model 99221-591A-0090030
Connector and connector mounting for	sensor 8713 to:
9180 or 9186 desktop version	
Connector m	odel 9941 mounting: 99004
ForceMaster 9110 Connector model 9	900-V221 mounting: 99005
DIGIFORCE [®] 9307, 9310, 9311	
Connector model 9	900-V209 mounting: 99004
SENSORMASTER 9163 desktop version	
Connector model 9	9900-v209 mounting: 99002
Connector for extension cable	Model 99121

Manufacturers Calibration Certificate (WKS)

Presented By: Physicom Corp. Phone: 416 754 3168 Fax: 416 754 2351 Fax: 416 754 754 Fax: 416 754 754 Fax: 416 754 754 Fax: 416 Fax: Calibration of a displacement sensor with or without evaluation elec-tronics in 20 % increment of the measurement range (6 points).



Potentiometric Displacement Sensor

Model 8719

Code:8719 ENDelivery:ex stock / 5 weeksWarranty:24 months



NEW Option Protection Class IP67

- Measuring ranges: between 0 ... 50 mm and 0 ... 900 mm
- Non-linearity ± 0.05% F.S.
- Resolution: 0.01 mm
- Durability: Up to 100 x 10⁶ movements
- Adjustment speed up to 10 m/s
- Plug or cable connection
- Optional protection classes IP65 and IP67

Application

Due to its high resolution also when measuring long distances, linear displacement measurements up to 900 mm can be carried out. Conversions between rotatory and translation movements through ball screws, wire or cord connections and so on are not necessary for direct displacement measurement.

Application fields include

- Electromagnets
- Deformations bending
- Pneumatic cylinders
- Length tolerances
- Press-insertions (longitudinal press-fits)
- Feed strokes
- Machine hubs
- Punch, knee lever or extruder distances
- Hydraulic cylinders

PHYSICOM CORP

Description

Due to the technology employed in potentiometric displacement sensors, they always operate with a sliding contact system. Special processes are applied to give the resistance tracks low friction, low tendency to stick/slip, resistance to abrasion and long-term stability.

The rod is guided in a low-play floating frontal bearing. This absorbs small angular and parallel displacements. The guide lug and slide block have particularly tight tolerances, in order to ensure reliable slider contact.

A ball joint coupling (see accessories) at the end of the sliding shaft minimizes axial errors between the sensor and the equipment.

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Technical Data

Measuring Range	[mm]	50	100	130	150	175	200	225	275	300	375	400	450	500	600	750	900
Length of Housing	[mm]	112	163	192	212	237	263	288	338	363	439	465	516	571	672	825	977
Total Displacement	[mm]	59	109	139	159	184	210	235	285	310	386	412	463	518	619	772	924
Weight of Rod																	
and Slider	ca. [g]	50	50	50	50	50	50	100	100	100	200	200	250	250	300	350	400
Total Weight	ca. [g]	300	350	400	500	500	500	600	600	650	700	800	900	1000	1200	1400	1600
Order Code	8719-	5050	5100	5130	5150	5175	5200	5225	5275	5300	5375	5400	5450	5500	5600	5750	5900

Electrical values

Resistance:	50-600 mm electr. usable le	ength 5 kΩ
	750-900 mm electr. usable le	ength 10 kΩ
Tolerance of resistance	:	± 20 %
Operating voltage:		max. 50 V DC
Operating current in sli	der circuit (see drawing 2):	recom. < 0.1 μA max. 10 mA
Dissipation at 40 °C:		max. 3 W
Insulation resistance:	> 100 MΩ	at 500 V DC, 2s
Electric strength:	< 100 µA at 500	V AC, 50 Hz, 2s

Environmental conditions

Range of operating temper	- 30 °C 100 °C	
Range of storage temperat	- 50 °C 120 °C	
Influence of temperature:	to resistance to output voltage	- 200 ± 200 ppm/°C < 1.5 ppm/°C

Mechanical values

Non-linearity:			± 0.05 % F.S.
Resolution:			0.01 mm
Durability:			10 ⁸
Displacement force:		≤ 4 ľ	N at IP60 and \leq 25 N at IP65
Displacement speed:			max.10 m/s
Vibrations:	5.	2000 Hz	, A _{max} = 0,75 mm, a _{max} = 20 g
Acceleration in opera	tion:		max. 200 m/s ² (20 g)
Shock resistance:			50 g, 11 ms
Material:	Rod		stainless steel AISI303
	Housing	9	anodized aluminium
Protection class:	acc. to l	EN 60529	standard IP60 (IP65 option)
Electrical connection	:		refer to drawing 1



Important:

The technical data quoted can only be maintained if the sensors are used properly. Their outstanding properties are only available when the loading of the slider in the voltage divider is kept < 0.1 $\mu A.$ If the measuring chain draws higher currents, the use of an operational amplifier as a voltage follower (I < 0.1 μ A) is necessary (see Drawing 2). If used close to the stops (slider at the end of the conductor track) the measurement errors can be higher.

Mounting Instructions:

Clamps with adjustable clearance; sensor can be clipped into the fitted clamps.

Dimensional drawings



Model 8705 ball joint (accessory) Wrench size 11



The CAD drawing (3D/2D) for this sensor can be imported online directly into your CAD system.

Download via www.burster.com or directly at www.traceparts.com. For further information about the burster traceparts cooperation refer to data sheet 80-CAD-EN.

Order Information

1.	standard version, range 200 mm	Model 8719-5200
2.	Potentiometric displacement sensor Option: protection class IP65	r range 375 mm, Model 8719-5375-V001
A	ccessories	
Ba	ll joint, refer to drawing above	Model 8705
Mo inc	ounting set, 2 clamps and 4 screws cluded in scope of delivery	Model 8719-Z001
Ma inc	ating connector, 5 pin (socket, IP40) luded in scope of delivery	Model 9991
Ма 90	ating connector, 5 pin (socket, IP40) °-outlet	Model 9900-V590
Ma for	ating connector (socket, IP67) sensor with mating connector IP65	Model 9900-V554
Ma	ating connector for sensors with IP67	Model 8719-Z002
Ca	ble, length 3 m, one end open	Model 99130
Ca ler	ble for connection to burster desktop Igth 3 m	devices, Model 99132
Cc ler	nnecting cable to DIGIFORCE [®] 9310 Igth 3 m	, Nodel 99209-591A-0090030
Cc ler	nnecting cable to 9163 desktop versigth 3 m	ion, Model 99209-591B-0090030
Su	pply units, amplifiers or indicators	like digital indicator 9163

amplifier 9243 or DIGIFORCE® refer to section 9 of the catalog

Options

-	
Identification	Meaning
V001	protection class IP65
V002	cable outlet (length of the cable 1 m)
V004	V 001 and V 002
V007	protection class IP67

Manufacturer Calibration Certificate (WKS)

Calibration of the sensor with or without evaluation electronics in 20 % steps (6 calibration points).



2406-008719DE-5672-081524



LVDT Displacement Sensor

With IN-LINE Amplifier

Model 8739

Code:	8739 EN
Delivery:	ex stock
Warranty:	24 months



- Ranges from 0 ... 1 mm to 0 ... 25 mm
- Non-linearity 0.25 % F.S.
- Sensor diameter 8 mm
- Output 0 ... 10 V
- Optional output 0 ... 5 V, ± 5 V, 4 ... 20 mA, USB
- Sensor with or without IN-LINE amplifier
- Vibration and wear free

Application

Inductive displacement sensors of this series measure linear displacements and indirectly all mechanical values convertible into displacements by additional equipment (i.e. tension and compression forces, extension, torque, vibration). The sensor body equipped with a connector has an outer diameter of only 8 mm and therefore is especially well suitable for the integration in dimensionally restricted structures.

Typical application fields are displacement and extension measurements on

- Machines
- Servo systems
- Motor vehicles
- Test benches
- Production plants

Description

The cylindrical case made of stainless steel, houses a differential transformer (LVDT). It consists of a primary and two secondary coils with axially moveable core. A displacement of this core changes the magnetic induction of the coils. The IN-LINE carrier frequency amplifier converts the displacement into a direct proportional electrical DC voltage.

The transducer is constructed as a probe at which within the measuring range a spring pushes the probe tip towards the measuring object. Bellows protect the mechanical guidance of the probe tip against pollution and splash water.

The IN-LINE amplifier is integrated in the connector cable and adjusted specifically to the sensor. Both components form a unit while they can be separated for mounting purposes (miniature plug connection at the transducer). The use of not harmonized components may lead to increased measurement errors. For the IN-LINE amplifier version the sensor body is galvanically isolated from the excitation and from the measuring signal.

Lateral forces decrease the durability.





Technical Data Model 8739

Order Code	Measuring Range	Dimensions [mm]			Cut-Off Frequency [Hz]	Tip Force at Full Scale max. [N]	Weight [g]	
8739-5001-V501	0 1 mm	103	97.5	15.5	4	100	1.2	25
8739-5002-V501	0 2 mm	103	97.5	15.5	4	100	1.5	25
8739-5005-V501	0 5 mm	140	130	23	7	100	2.3	25
8739-5010-V501	0 10 mm	146	140	27	12	100	2.4	25
8739-5025-V501	0 25 mm	0 25 mm driving rod without return spring with sliding rings made of teflor				100	0	25

Model 8739 without IN LINE Amplifier

Order Code	Measuring Range	Sensitivity	Sensor Excitation Voltage [V]	Operation Frequency [kHz]	Calibrator Resistor [kΩ]
8739-5001-V000	0 ± 0.5 mm	106 mV/V /mm	2	5	10
8739-5002-V000	0±1 mm	106 mV/V /mm	2	5	10
8739-5005-V000	0 ± 2.5 mm	62 mV/V /mm	2	5	10
8739-5010-V000	0 ± 5 mm	62 mV/V /mm	2	5	10

Measuring range 0 ... 25 mm on request



Electrical values

Excitation voltage (prot	ected against wrong	polarity): 13.5 28 V DC
Excitation voltage at Ua	a 0 5 V:	9 28 VDC
Current input:		< 30 mA
Output voltage of meas	suring range:	(standard): 0 +10 V
Ripple of output voltage	e:	approx. 20 mV
Internal carrier frequence	CV:	4 kHz
Output resistance:		1 kΩ
Load resistor:		reccom. > 1 M Ω
Environmental	conditions	
Operation temperature	range (only sensor):	- 20 °C 80 °C
Nominal temperature ra	ange (only sensor):	- 20 °C 80 °C
Influence of temperatur	·e*:	0.03 % F.S./K
* relating to the range o	f nominal temperature	е.
Mechanical val	ues	
Non-linearity:		< 0.25 % F.S.
Non-repeatability:		± 0.1 % F.S.
Hysteresis:		± 0.1 % F.S.
Driving rod:		guided by ball-bearings
Probe tip (included in se	cope of delivery):	thread M 2.5
Case material of sensor	r body:	ST 25, nickel-plated
Case material IN-LINE a	amplifier:	Aluminium
Protection class: ac	cording to EN 60529	Model 8739 IP60
Protection class of IN-L	INE amplifier:	IP65
Dimensions of IN-LINE	amplifier:	25 x 73.7 [mm]
Dimensions with PG bo	olts:	25 x 114 [mm]
Electrical connection: total length 4 m, the bly mounted, bendi sensor other side c	shiek e IN-LINE amplifier is ing radius ≥ 10 mm, v open ends	ded, PVC insulated wire, centrically and insepara- with a 4 pin connector to
Pin assignment:	with IN-I INF Amp.	without Amp. Pin

Pin assignment:		with IN-LINE Amp.	with	out Amp.	Pin
excitation	(+)	brown		OSC+	4
signal	(+)	green		OSC-	2
excitation/signal	(-)	white		OUT+	1
	Conne	ect the shield to ground (GN	VD)	OUT-	3

Manufacturer Calibration Certificate (WKS)

Standard manufacturer calibration raising in 20 % increments, with or without indicator.



The CAD drawing (3D/2D) for this sensor can be imported online directly into your CAD system.

Download via www.burster.com or directly at www.traceparts.com. For further information about the burster traceparts cooperation refer to data sheet 80-CAD-EN.

Order Information

Displacement sensor with measuring range 0 ... 5 mm IN-LINE amplifier Ua 0 ... 10 V Model 8739-5005-V501 Inductive displacement sensor with measuring range 0 ... 2 mm

Accessories Model 8739-5002-V000

Addedddiicd	
Clamp (s. accessory data sheet)	Model 8739-Z005
Fixing bracket (s. accessory data sheet)	Model 8739-Z003
Threaded sleeve (s. accessory data sheet)	Model 8739-Z004
Connector 12 pin suitable to burster desktop	devices Model 9941
Installation of connector to cable	Model 99004
Connector 9 pin Min-D for model 9310	Model 9900-V209

Upon connection of the sensor to DIGIFORCE® 9310 display version an external excitation voltage is requested for the IN-LINE amplifier version (model 8739 - 5XXX-V505 or -V506).

Devices or systems for measuring value collection or

process monitoring: refer to section 9 of the catalog.

Optionen

PHYSICOM CORP.

- V302: Sensor housing with fixing thread M12x1.75x45 including two nuts (refer to mounting advice). The thread sleeve is mounted flush to the housing.
- V502: Sensor plug with 90° depature
- V503: Inductive displacement sensor with voltage output 0 ... 5 V
- V504: Combination of V502 and V503
- V510: Inductive displacement sensor with voltage output $\pm 5 \text{ V}$
- V514: Inductive displacement sensor with current output 4 ... 20 mA
 V515: Inductive displacement sensor with USB interface and evaluation software (other technical data see data sheet 9206)
- Dragchain cable

Other cable lengths	
---------------------	--

Comparsion in Inch on request Other adjustment of the amplifier, e.g. 0...4 mm $\triangleq 0...10$ V on request

