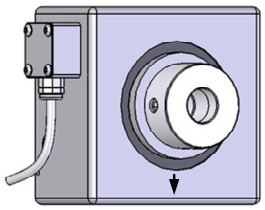
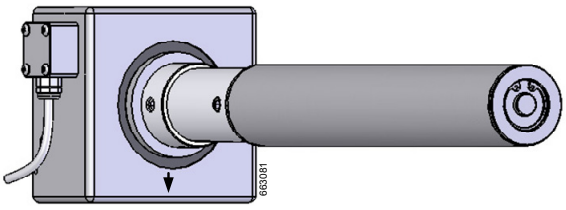
CLS
Cantilever Load Sensor

CHECKLINE®
MADE TO MEASURE

Honigmann



Sensor



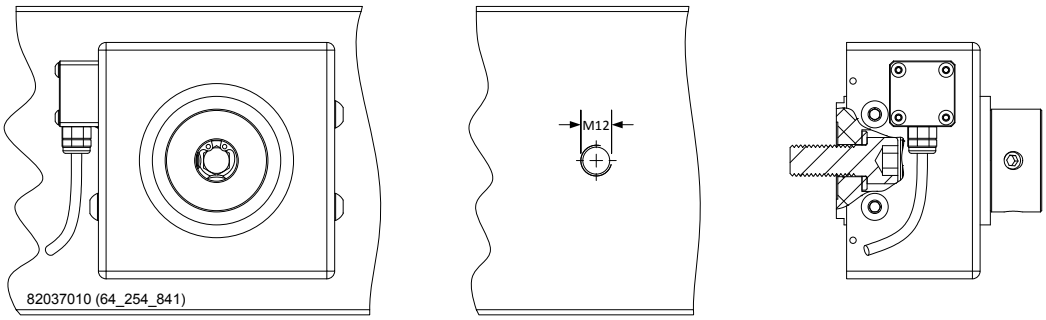
Sensor with mounted roll

Arrow marks the position of the measuring axis

Types of fastening

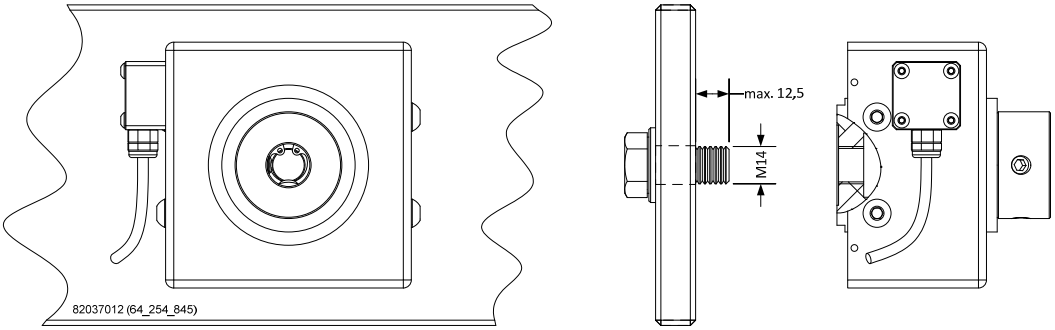
Frontal, central fixing screw M12

- force measuring axis continuously adjustable



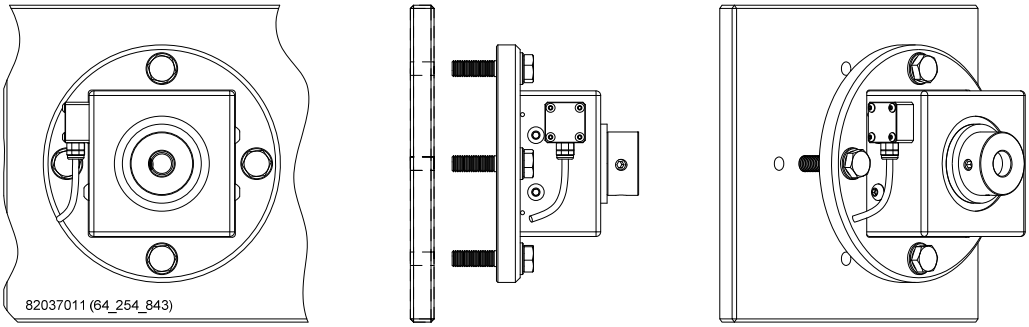
Rear, central fixing screw M14

- force measuring axis continuously adjustable



Frontal, mounting flange

- gradual alignment of the force measuring axis, depending on the hole pattern in the mounting flange
- defined installation position for series devices



All dimensions in mm

Rated measuring ranges

Nominal force [N]								
LR - Low Range				SR - Standard Range		HR - High Range	XR - Extended Range	
100	200	300	400	500	600	1000	2000	3000

The measuring range of the sensor begins at force's zero point.
Nominal forces differing from the list are available.

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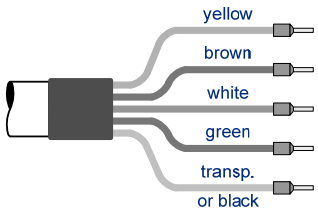
Technical Data

Rated measuring ranges (FN)	**N**	0 - 20 to 0 - 3000
Rated output	**mV/V**	1,0
Rated output tolerance	**%**	< ± 0,2
Accuracy class		< 0,5 (#2)
Excitation voltage max.	**V**	12
Reference excitation voltage	**V**	10
Input resistance	**Ω**	350 ± 3
Output resistance	**Ω**	350 ± 1
Isolation resistance	**GΩ**	> 10
Rated temperature range	**°C**	5 to 50, Option: -10 to 70
Operational temperature range	**°C**	-10 to 70
Storage temperature range	**°C**	-30 to 70
Reference temperature	**°C**	23
Temperature influence per 10 K		
- on the zero point (TK0)	**% F_N**	< ± 0,1
- on the calibration (TKC)	**% F_N**	< ± 0,15
Creep after 30 minutes	**% F_N**	< ± 0,05
Linear output signal up to	**% F_N**	approx. 120
Mech. overload protection takes effect at	**% F_N**	approx. 130
Overload protected (#1)	**% F_N**	500 to 1000 (#2)
Ultimate side load	**% F_N**	300 to 500 (#2)
Deflection at nominal force	**mm**	0,07 ± 20%
Typ. natural frequency of the sensor	**kHz**	(#2)
Weight	**kg**	approx. 3,5
Protection class		IP 50
Sensor housing and nuts		aluminum / VA steel
Connection cable		3m long, flexible, shielded
		4 x 0,25mm², total ∅ 4,7 mm

(#1) radial incoming force without additional bending or tilting moment
(#2) see specification on type label

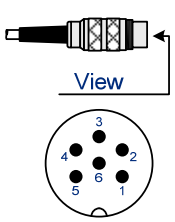
Connections

Standard: Connection type „O“



+U_{Br}	Excitation	
- U_{Br}		
+U_{Sig}	Output	
- U_{Sig}		
Shield *(not connected to housing)*		

Option: Connection type „S“



1	+U_{Br}	Excitation
2	- U_{Br}	
3	Shield *(not connected to housing)*	
4	+U_{Sig}	Output
5	- U_{Sig}	
6	Reserved	