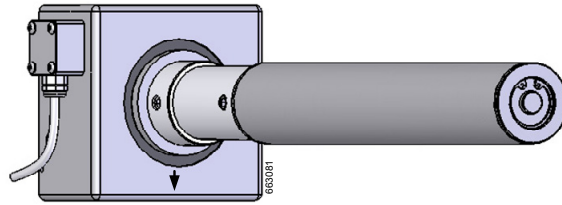


Sensor



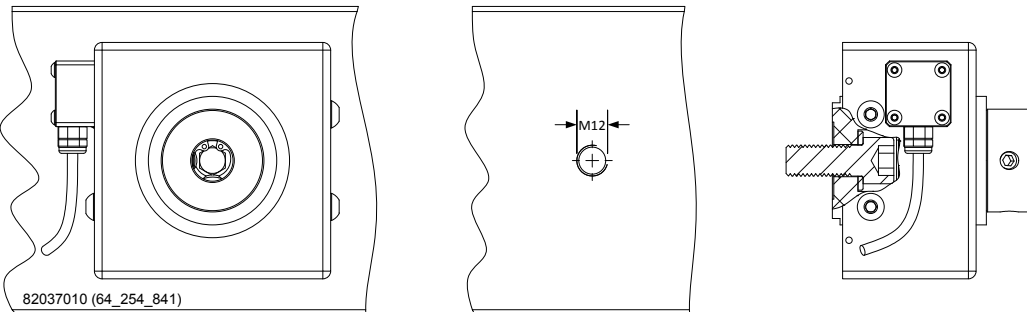
Sensor with mounted roll

Arrow marks the position of the measuring axis

### Types of fastening

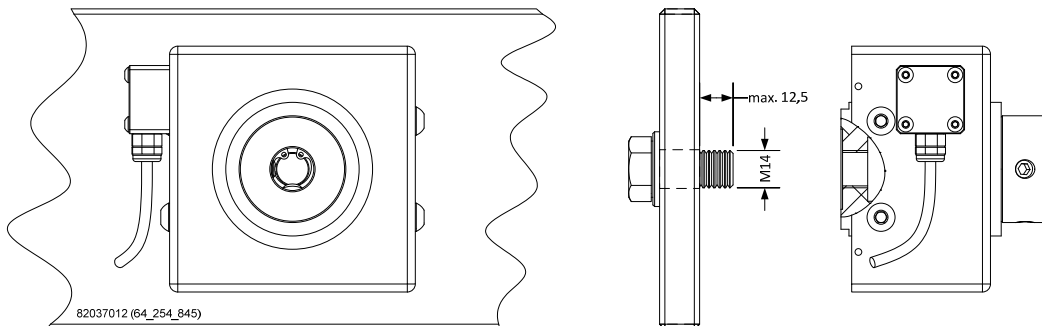
#### Frontal, central fixing screw M12

- force measuring axis continuously adjustable



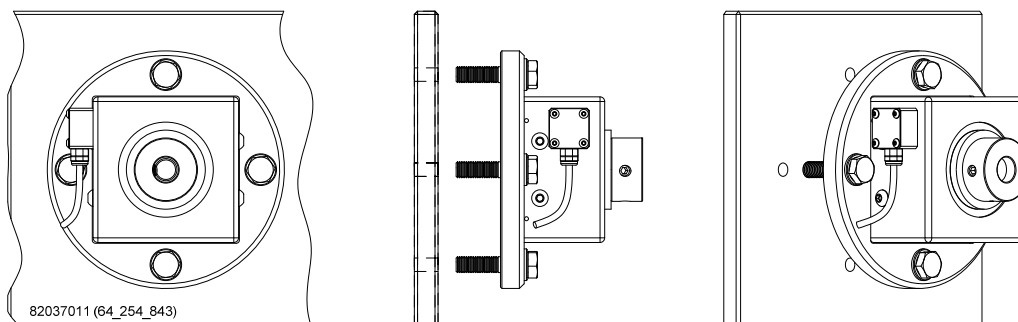
#### Rear, central fixing screw M14

- 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.

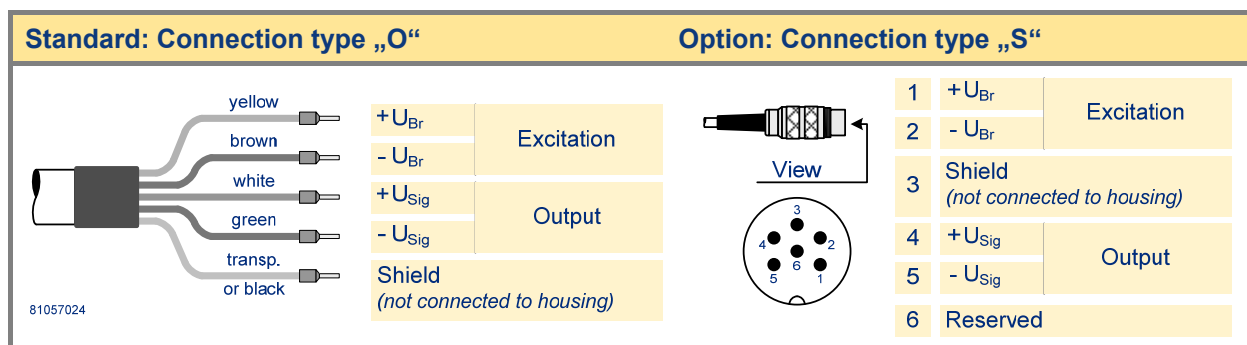
### Technical Data

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

(#1) radial incoming force without additional bending or tilting moment

(#2) see specification on type label

### Connections



Technical design subject to change without prior notice. © 2022 by Honigmann

Honigmann Industrielle Elektronik GmbH • In den Weiden 20 • D-58285 Gevelsberg • ☎ +49-2332-55115-0 • 📠 +49-2332-55115-99