

# Optical strain sensors with fiberglass

FC/APC plug

Please check if the chain is to be equipped with a plug.

## Maximum configuration of an optical chain:

- 13 Bragg gratings (available wavelength of optical sensors, see tables below)
- Chain length (from first to last sensor): max. 200 m
- Fiber length, selectable in steps of 0.5 m
- Minimum distance from plug to first optical sensor = 0.5 m ( $\pm 5$  cm)
- Minimum distance from one optical sensor to the next optical sensor = 0.5 m ( $\pm 5$  cm)

FC/APC plug

Please check if the chain is to be equipped with a second plug.  
The second plug is for redundancy in the event of fiber rupture.



### For K-OL\* and K-OTC\*

1520 nm	1525 nm	1530 nm	1535 nm	1540 nm
1545 nm	1550 nm	1555 nm	1560 nm	1565 nm
1570 nm	1575 nm	1580 nm		

\*K-OL: optical linear strain gauge  
\*K-OTC: optical temperature compensation sensor  
more information: [www.hbm.com](http://www.hbm.com)

### For K-OR\*

Rosette 1: 1520 nm, 1525 nm, 1530 nm
Rosette 2: 1535 nm, 1540 nm, 1545 nm
Rosette 3: 1550 nm, 1555 nm, 1560 nm
Rosette 4: 1565 nm, 1570 nm, 1575 nm

\*K-OR: opt. rosette (0°/60°/120°), more information: [www.hbm.com](http://www.hbm.com)

### Available wavelength in nm

Please use the "Bragg wavelength in nm" field to enter the desired wavelength or the rosette type (1, 2, 3 or 4).

Enter the wavelength or rosette at the position where the optical sensor is to be connected in the chain.

Each wavelength may be used only once per chain.  
You can specify any position in the chain.

Use the "Fiber length in m" field to enter the distance between plug and optical sensor or the distance between adjacent optical sensors.

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