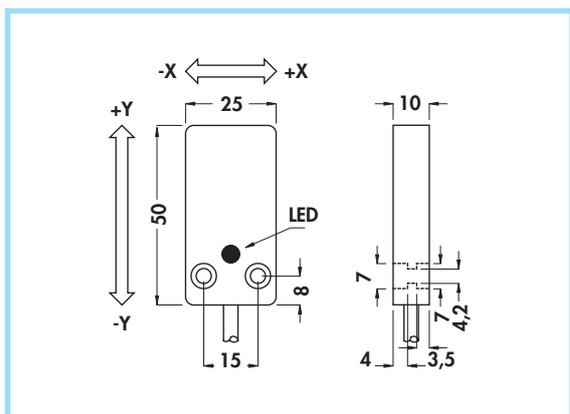
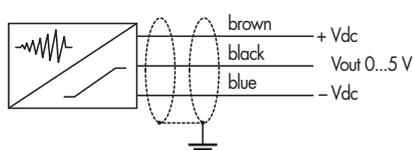


## ACCELERATION SENSORS

- **2 AXIS VIBRATION SENSORS**
- **Average value output**
- **Cable output**

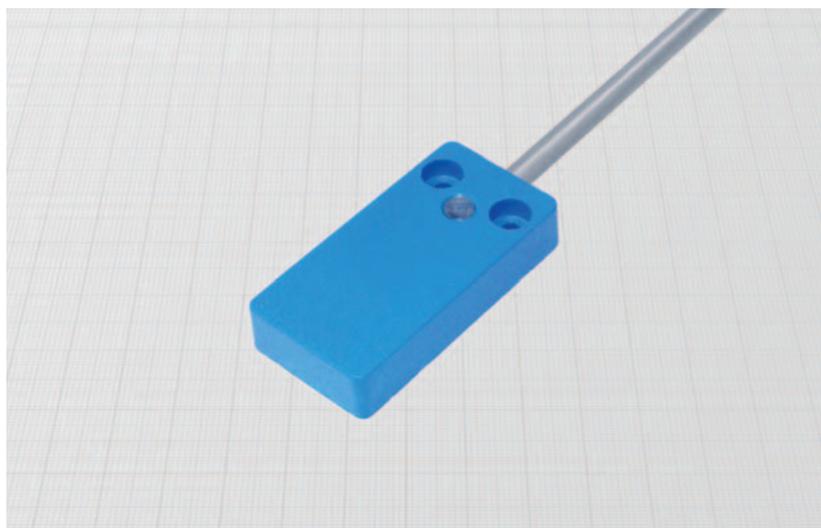


### Connection diagram



### Materials:

- Cable: 2 m PVC CEI 20 - 22 II; 90°C
- Housing: plastic



### General Features:

These sensors give an analog signal proportional to the vibrations on both the X and Y axis. Since the measurement is made from a very low frequency, the gravity acceleration is not detected, so the measurement is not affected by the mounting position. The output voltage from 0 to 5 V is proportional to the average value of the sum of the accelerations measured on the X and Y axis.

Other outputs such as temperature and ON/OFF alarms, which are factory preset at specific thresholds, are available upon request.

### Applications:

- Alarm or feedback on the control for excessive vibrations
- Shock and collision amplitude indication
- Harmful unbalancing detection of the tool and tool holder in milling and grinding machines.

### Technical data:

- Measuring range:  $\pm 2; \pm 5; \pm 18$  g
- Supply voltage:  $8 \div 30$  Vdc
- Power consumption:  $\leq 12$  mA
- Output voltage range:  $0 \div 5$  V
- Sensitivity:
  - 2 g full scale: 2,5 V/g
  - 5 g full scale: 1 V/g
  - 18 g full scale: 0,27 V/g
- Output resistance: 100  $\Omega$
- Frequency range:  $2 \div 500$  Hz
- Cross axis sensitivity:  $< \pm 2$  %
- Maximum survival shock: 1000 g
- Working temperature:  $-20^\circ \div +70^\circ$  C
- Storage temperature:  $-40^\circ \div +100^\circ$  C
- Degree of protection: IP67
- Cable conductor cross section: 0,35 mm<sup>2</sup> + shield
- LED indication: green = power supply  
yellow = vibration level >1% full scale
- Shock and vibration resistance according to EN60068-2-27 EN60068-2-6
- Electromagnetic compatibility (EMC) according to EN61000-6-2/-4 **CE**

Type	Cable diameter	Full scale measure	ORDERING REFERENCES
	mm	g	
Biaxial	5	2 g	<b>VSX/2602S</b>
Biaxial	5	5 g	<b>VSX/2605S</b>
Biaxial	5	18 g	<b>VSX/2618S</b>