

**Technical data**  
**ESW®-Mini\_025 with internal sensor**

|                            |   |
|----------------------------|---|
| operation voltage          | 24V DC $\pm$ 10%  |
| current input              | max. 45mA   |
| temperature range          | -10°C to +65°C  |
| type of protection         | IP 65   |
| case                       | Aluminium pressure-die-casting (AlSi12), powder coated (RAL 7001)<br>Sealing ring: Neoprene   |
| case dimensions            | 98 x 34 x 64mm (w x h x d), Fixing hole M8x1.25 ; see manual  |
| weight                     | approx. 507g (without cable), approx. 880g (with cable)   |
| mounting plate             | aluminium ground plate (AlMg3) 97 x 4 x 63mm<br>with 19mm hexagonal bolt (AlCuMgPb), 20mm length and<br>M8 x 1,25 internal thread,<br>(mounting plate and hexagonal bolt without surface protection)  |
| torque                     | max. 30Nm, power transmission only at hexagonal bolt  |
| connecting cable           | 5m, SD 90 C,7 x 0,34mm <sup>2</sup> , firmly fixed,<br>cover material: PVC,<br>min. bending radius: 60,00mm   |
| screw-type conduit fitting | M16x1,5 Brass CuZn39Pb3, nickel-plated<br>Lamellar insert: Polyamide PA6 V-2<br>Sealing ring: Polychloroprene-Nitrile rubber CR/NBR<br>O-Ring: Nitrile rubber NBR   |
| sensor                     | integrated vibration sensor   |
| input value                | vibration acceleration  |
| measuring value            | vibration velocity in mm/s  |
| measuring range            | 0 to 20mm/s   |
| signal assessment          | arithm. average, aligned to RMS   |
| frequency range            | 3Hz to 30Hz (-3dB)  |
| filter                     | Butterworth, 40dB/dec resp. 12dB/oct  |
| analog output              | 4 to 20mA current source,<br>proportional to measuring value  |
| load                       | max. 500Ohm   |
| switching output           | potential free relay contact (30V, 1A)  |
| switching threshold        | 10% to 100% of measuring range,<br>adjustable by potentiometer in the case  |
| switching delay            | rise time delay 3s fixed by factory<br>fall time delay 0,5s fixed by factory  |
| line monitoring            | The switching contacts are closed in their normal<br>position, the relays are activated (excited).<br>In the case of alarm, voltage drop or cable breakage,<br>the switching outputs become highly resistive because<br>the switching contacts are deactivated. |
| cable connection           | pink +Ub blue ground<br>brown opener yellow closer<br>green middle contact grey analog output<br>white analog ground<br>shield is connected with case, not with ground  |
| optional                   | threaded pin M8x25mm, V4A   |