

**Technical data**  
**ESW<sup>®</sup>-Mini\_053 with internal sensor**

|                            |  |  |
|----------------------------|--|--|
| operation voltage          | 24V DC $\pm 10\%$  |  |
| current input              | max. 45mA  |  |
| temperature range          | 0°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. 650g   |  |
| 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           | 2m, SD 90 C, 7 x 0,34mm <sup>2</sup> , firmly fixed, oil resistant cable for<br>outdoor, cover material: PUR, min. bending radius: 50,25mm   |  |
| 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 100mm/s   |  |
| signal assessment          | arithm. average, aligned to RMS  |  |
| frequency range            | 1Hz to 100Hz (-3dB)  |  |
| filter                     | Butterworth, 40dB/dec resp. 12dB/oct   |  |
| analogue 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 step switch in the case   |  |
| switching delay            | rise time delay 5s fixed by factory<br>fall time delay 0,5s fixed by factory   |  |
| line monitoring            | The switching contacts are closed in their normal position,<br>the relays are activated (excited). In the case of alarm,<br>voltage drop or cable breakage, the switching outputs become<br>highly resistive because the switching contacts are deactivated. |  |
| cable connection           | pink +Ub<br>brown opener<br>green middle contact<br>white analog ground<br>shield is connected with case, not with ground  | blue ground<br>yellow closer<br>grey analog output |
| optional                   | threaded pin M8x25mm, V4A  |  |

Technical data under reservation!

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