Technical data
ESW®-Mini_022 with internal sensor

operation voltage	24V DC ±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) Sealing ring: Neoprene
case dimensions	98 x 34 x 64mm (w x h x d), Fixing hole M8x1.25 ; see manual
weight	app. 650g
mounting plate	aluminium ground plate (AlMg3) 97 x 4 x 63mm with 19mm hexagonal bolt (AlCuMgPb), 20mm length and M8 x 1,25 internal thread, max. 11mm top hole mounting plate and hexagonal bolt without surface protection
torque	max. 30Nm, power transmission only at hexagonal bolt
connecting cable	5m, 7 x 0,34mm², firmly fixed type LiYCY, cover material: PVC, min. bending radius: 70mm
screw-type conduit fitting	M16x1,5 Brass CuZn39Pb3, nickel-plated Lamellar insert: Polyamide PA6 V-2 Sealing ring: Polychloroprene-Nitrile rubber CR/NBR 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	3Hz to 100Hz (-3dB)
filter	Butterworth, 40dB/dec resp. 12dB/oct
analog output	4 to 20mA, current source, proportional to measuring value
load	max. 500Ohm
switching output	potential free relay contact (30V, 1A)
switching threshold	10% to 100% of measuring range, adjustable by step switch in the case
switching delay	rise time delay 3s fixed by factory fall time delay 0,5s fixed by factory
line monitoring	The switching contacts are closed in their normal position, the relays are activated (excited). In the case of alarm, voltage drop or cable breakage, the switching outputs become highly resistive because the switching contacts are deactivated.
cable connection	pink +Ub / blue ground brown opener / yellow closer green middle contact / grey analog output white analog ground shield is connected with case, not with ground
optional	threaded pin M8x25mm, V4A

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