

Technical data

ESW[®]-Midi_020 with internal sensor

operating voltage	230V AC $\pm 10\%$
power consumption	app. 2VA
temperature range	0°C to 65°C
type of protection	IP 65
case	Aluminium pressure-die-casting ALSi12, powder-coated RAL 7001
case dimensions	125 x 80 x 57mm (w x h x d)
weight	app. 780g
mounting plate	aluminium ground plate 124 x 4 x 56mm with 22mm hexagonal bolt, 15mm length and M8 x 1,25 internal thread
threaded pin	M8, 25mm, item number: 335 00 44
torque	max. 30Nm, power transmission only at hexagonal bolt
connection cable	2m, power-cord (SABIX [®] A200 FRNC, 3 x 0,5mm ² , Ø=5,8mm) 2m, signal-cord (SABIX [®] D315 FRNC, 5 x 0,34mm ² , Ø=6,5mm) firmly fixed, min. bending radius: 60mm
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 ADXL321
input value	vibration acceleration
operating range	$\pm 175\text{m/s}^2$ resp. $\pm 18\text{g}$
measured value	vibration velocity in mm/s
measurement range	0 to 20mm/s
signal assessment	arithm. average, aligned to RMS
frequency range	1Hz to 100Hz (-3dB)
filter	Butterworth, 60dB/dec resp. 18dB/oct
analog output	4 to 20mA current source, proportional to the measuring range
load	max. 330Ohm
switching output	potential free switching-contact (30V, 1A)
switching threshold	10% to 100% of measuring range, adjustable by step switch in the case
switching delay	rise time delay 30s, 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	
power	1, 2 230V AC yellow/green protective earth
signal	brown: opener yellow: closer green: middle contact grey: analog output white: analog ground