

Technical data

ESW[®]-small-Transmitter 10-25

operating voltage	10V to 30V DC, reverse polarity protected
current input	4 to 20 mA, max. 27 mA
temperature range	-20°C to +85°C
type of protection	IP 68
case	high grade steel V2A (1.4305)
case dimensions	108 x 55mm (h x Ø), Fixing hole M10x1.5 ; see manual
weight	approx. 1,2kg (without cable), approx. 1,9kg (with cable)
connection cable	20m, 2 x 0.34mm ² , with shield cover material: PUR, temperature range: -40°C to +90°C, min. bending radius: 37,50mm
screw-type conduit fitting	MSBF 12, M12x1,5, Brass CuZn39Pb3, galvanized nickel-plated, O-ring: Nitrilkautschuk NBR, sealing insert: Polychloropren-Nitrilkautschuk CR/NBR
sensor	integrated acceleration sensor
measured value	vibration acceleration in mm/s ²
measurement range	0 .. 10g (1g = 9,81m/s ²)
frequency range	2Hz .. 2kHz (-3dB)
filter	Butterworth, 40dB/dek
signal assessment	peak, decay time 0.08s; averaging over low-pass 0.36Hz
analog output	4mA - 20mA (correspond to 0 - 10g)
dynamic range	4 - 22mA linear (up to 25mA -1dB)
supply	Constant voltage supply Modulation of the supply current within the range 4 - 20mA Measurement of current consumption or extraction as voltage across load resistance
max. load resistance	dependant on supply voltage
Dimensioning	$U_{int-min} = 10V$, $I_{out-max} = 27mA$ $supply = U_{int-min} + (R_{load} \times I_{out-max})$
example	Default:: $R_{load} = 500\Omega \gg$ output: 0.5V/mA $U_{load-max} = 27mA \times 500\Omega = 13.5V$ $U_{B-min} = U_{load-max} + U_{int-min} = 13.5V + 10V = 23.5V$
cable connection	white 4 to 20mA current loop brown 4 to 20mA reference potential
optional	threaded pin, M10x25mm, V4A
optional	adaptor screw, 31.9mm length, M10 thread on ½-14NPTF, according to WN 1102