

Technical Data
ESW[®]-Transmitter-xs-01-AR

operating voltage	10V up to 30V DC ± 10%
current input	4 to 20 mA, max. 25 mA
temperature range	-55°C to +90°C
type of protection	IP 67
case	stainless steel (1.4404)
case dimensions	47xSW22
weight	approx. 85g
mounting stud	threaded pin M8
connector	4-pin standard industrial plug in (M12)
sensor	integrated acceleration sensor
measured value	vibration acceleration in g
measurement range	0 to 1g
frequency range	3Hz to 10kHz ± 10%
signal assessment	RMS
analog output	4mA - 20mA (correspond to 0 – 1g)
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	$U_{\text{int-min}} = 10\text{V}$, $I_{\text{out-max}} = 27\text{mA}$ $\text{supply} = U_{\text{int-min}} + (R_{\text{Load}} \times I_{\text{out-max}})$
example	default: $R_{\text{load}} = 500\ \text{Ohm} \gg \text{output: } 0,5\text{V/mA}$ $U_{\text{Load-max}} = 27\text{mA} \times 500\text{Ohm} = 13,5\text{V}$ $U_{\text{B-min}} = U_{\text{Load-max}} + U_{\text{int-min}} = 13,5\text{V} + 10\text{V} = 23,5\text{V}$
cable connection	1: + / 2: - / 3: nc 4: Dynamic Output (should be from the power supply galvanical separated)

