

Technical data

ESW®-small-Ex-Transmitter-10-10

old designation (ESW®-small-Ex-2241-K2-Transmitter-10-10)

operating voltage	10V to 30V DC, reverse polarity protected
current input	4 to 20 mA, max. 27 mA
temperature range	-40°C to +65°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. 1,4kg (with cable)
connection cable	7m, 2 x 0,34mm ² , with shield cover material: PUR, temperature range: -40°C to +80°C, min. bending radius: 38,25mm
screw-type conduit fitting	HSK-M-Ex-d, M12x1,5, Brass CuZn39Pb3, galvanized nickel-plated, O-ring: FPM, sealing insert: FPM
sensor	integrated acceleration sensor
measured value	vibration velocity in mm/s
measurement range	0 to 20mm/s
frequency range	10Hz to 1kHz (-3dB)
filter	Butterworth, 40dB/dek
signal assessment	arithm. average, aligned to RMS
analog output	4mA - 20mA (correspond to 0 - 20mm/s)
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 $U_{load-max} = 27mA \times 500\Omega = 13,5V$ $U_{B-min} = U_{load-max} + U_{int-min} = 13,5V + 10V = 23,5V$
gas registration	II2G Ex d IIC T6 Gb
dust registration	II2D Ex tb IIIC T80°C Db
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

Technical data under reservation!

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