

Technical data

ESW[®]-small-Ex-2241-K4-Compact-001

operating voltage	24V DC $\pm 20\%$, reverse polarity protected			
current input	max. 100mA			
temperature range	-40°C to +60°C			
type of protection	IP 68			
case	high grade steel V2A (1.4305)			
case dimensions	108 x 55mm (h x Ø)			
weight	approx. 1,2kg (without cable), approx. 1,4kg (with cable)			
connection cable	2m, 10 x 0,34mm ² , with shield, cover material: PUR, temperature range: -40°C to +90°C, min. bending radius: 70,00mm			
screw-type conduit fitting	ADE 1F2, M12, Di4, Brass nickel-plated, Sealing ring: silicone			
sensor	integrated acceleration sensor			
measured value	vibration velocity in mm/s			
measurement range	0 to 10 / 0 to 20 / 0 to 50mm/s, switchable			
signal assessment	arithm. average, aligned to RMS			
frequency range	10Hz to 1kHz (-3dB)			
filter	Butterworth, 60dB/dec resp. 18dB/oct			
analog output	0 to 20mA or 4 to 20mA current source proportional to adjusted measurement range			
load	max. 500Ohm			
switching output	two potential free contacts K1 and K2 (30V, 1A)			
switching threshold	10% to 100% of measuring range, adjustable by Potentiometer in the case			
rise time delay	K1 = 10s, K2 = 5s			
fall time delay	K1 = 0,5s, K2 = 0,5s			
line monitoring	The switching contacts of K1 and K2 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.			
function test	simple self-test on start complete function test, selectable by dip-switch			
gas registration	II2G Ex d IIC T6 Gb			
dust registration	II2D Ex tb IIIC T80°C Db			
cable connection	red	+Ub	blue	ground
	yellow	closer contact K1	green	middle contact K1
	pink	opener contact K1	white	closer contact K2
	brown	middle contact K2	black	opener contact K2
	grey	analog output	violet	not connected
optional	threaded pin, M10x25mm, V4A			
optional	ground on earth terminal, BARTEC, 4,0mm ²			