

Technical data

ESW®-small-Ex-Compact_010

old designation (ESW®-small-Ex-2241-K4-Compact-010)

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), Fixing hole M10x1.5 ; see manual		
weight	approx. 1,2kg (without cable), approx. 1,6kg (with cable)		
connection cable	5m, 10 x 0,34mm ² / SD200 C 12x0,34mm² , with shield, cover material: PUR/ PUR , temperature range: -40°C to +90°C, min. bending radius: 70,00mm/ 50,25mm		
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 = 15s, 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
	grey-pin	not connected	red-blue not connected
optional	threaded pin, M10x25mm, V4A		