

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 | | | |