



- electric control of operating manifolds in machines and hydraulic devices
- designed for use in areas with explosion hazards

**CONTROL OF
WORKING
MEDIUM FLOW**

ZES-40

Technical data

Electric control of the direction of working medium flow in machines and devices working in the underground of mines, in areas with explosion

WORKING PARAMETERS

Operating mode	constant operation
Working conditions:	
- ambient temperature	0÷65°C
- relative humidity of air	up to 95%, at the temperature of 25°C
Hydraulic liquid	oil-in-water emulsion, hydraulic oil or other oil with similar properties
- rated viscosity of the liquid	37 mm ² /s
- viscosity range	2.8 do 380 mm ² /s
- required filtration level	40 µm
- rated pressure	32 MPa
- maximum pressure	35 MPa
- maximum flow	depending on working pressure, hydraulic medium and acceptable pressure drops on the valves of operating manifolds
- optimum working temperature (of the liquid in the container)	20 ÷ 60°C
- liquid temperature range	0 ÷ 70°C
Supply voltage	10,2 ... 13,8 V DC from a power supply unit with an intrinsically safe output and maximum output current of 2 A
Acceptable output parameters	$U_i = 15.3 \text{ V}$, $I_i = 2 \text{ A}$, $L_i = 0$; $C_i = 0$
Coil resistance	$R = 126 \pm 10$
Rated current of the safety fuse of the coil	250 mA, one-shot fuse
Size	40 × 133,5 × 165 mm
Weight	about 4.0 kg
Casing protection degree	IP 65

- Used as an electrically controlled manifold in RBz 1÷6 intrinsically safe electro-hydraulic blocks.

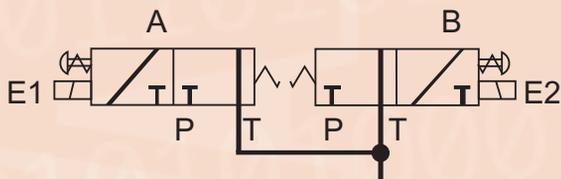


Diagram of hydraulic connections of ZES-40

Anti-explosion structure

 I M1 Ex ia I

CE-type examination certificate

FTZU 04 ATEX 0009X

Conformity mark



ORDERS TO: