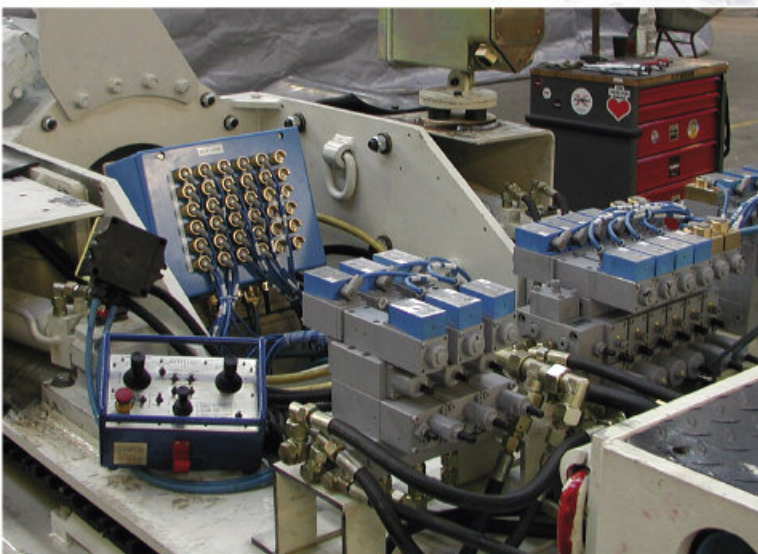




Valve solenoid **iEA33/1RSLx**

for the actuation of hydraulic valves
in potentially explosive atmospheres

- Intrinsically safe electromagnet
- Any desired fitting position
- Connection via terminal housing or connector
- Largely unaffected by external influences
- Maintenance-free
- Type of protection: IP 54 according to EN 60529/IEC 529
- Ex-approval: I M2 EEx ia I intrinsically safe acc. to Directive 94/9/EC (ATEX)



Intrinsically safe valve solenoids iEA33 on a
hydraulic control block for the operation of an
electrohydraulically driven drilling carriage
underground

iEA33/1RSLx

FUNCTION AND DESIGN

The valve solenoid iEA33/1RSLx is used on intrinsically safe power supply systems and is designed for actuating hydraulic valves.

The solenoid consists of an electromagnet on which a junction housing is mounted. A cover, in the RSLK version fastened by four secured hex. socket head cap screws closes the housing.

Sealing of the solenoid is provided by an O-ring inserted between the electromagnet and the junction housing and the flat seal in the cover which meets the requirements for type of protection IP54.

A populated printed circuit board is mounted in the housing interior and completely embedded in cast resin potting compound ensures adequate safety with respect to explosion protection. Only the connection parts are accessible.

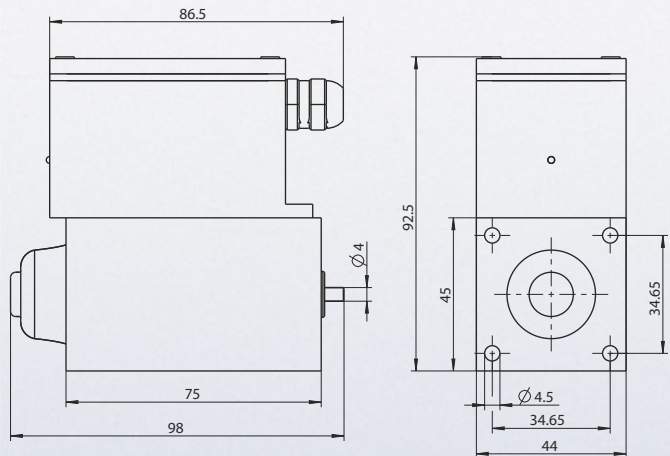
In the RSKL version, a cable entry gland with stress-relief clamp is available to allow inserting the cable twist-free. The cable entry gland can be attached variably at both side panels and optionally also at one front panel.

In order to maintain type of protection IP 54 in the RSLK variant the cable for operating the valve solenoid must have a diameter of 6 mm to 13 mm.

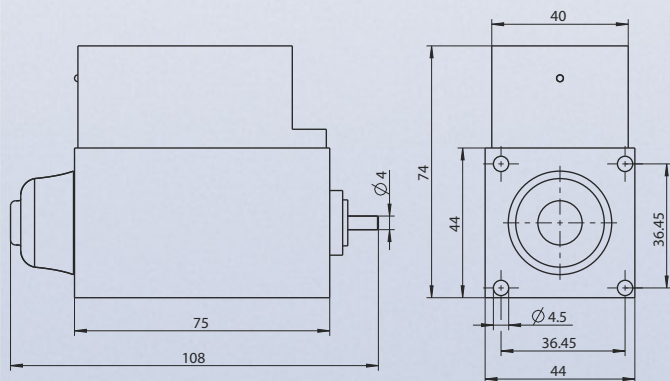
The variant of the valve solenoid with RSL connector has the connection made via the integrated 4-pin cable socket of type G4W1F of Messrs. Hirschmann. With the connector fitted correctly, this type of connection also ensures type of protection IP54.

The cover bears a type plate with the required marking and the note "for intrinsically safe systems, only".

TYPE iEA33/1RSLK



TYPE iEA33/1RSL



dimensions in mm

TECHNICAL DATA TYPE iEA33/1RSLx

Rated voltage U_{rated}	12.0 VDC
Maximum voltage U_{max}	13.5 VDC
Current consumption I_{nom}	260 mA / 130 mA reduced
Power	~ 3 watt / ~ 1,5 watt reduced
Resistance	46 $\Omega \pm 5\%$
Stroke	4 mm
Type of connection	Cable socket for Hirschmann G4W1F; type K: terminal housing
Cable entry gland	M12 x 1.5 (only type RSLK)
Temperature range	-20°C to 60°C
Type of protection	IP 54 according to EN 60529/IEC 529
Ex-approval	I M2 EEx ia I acc. to Directive 94/9/EC (ATEX)
Certificate number	DMT 99 ATEX E102

Subject to technical alterations · Version 08/12