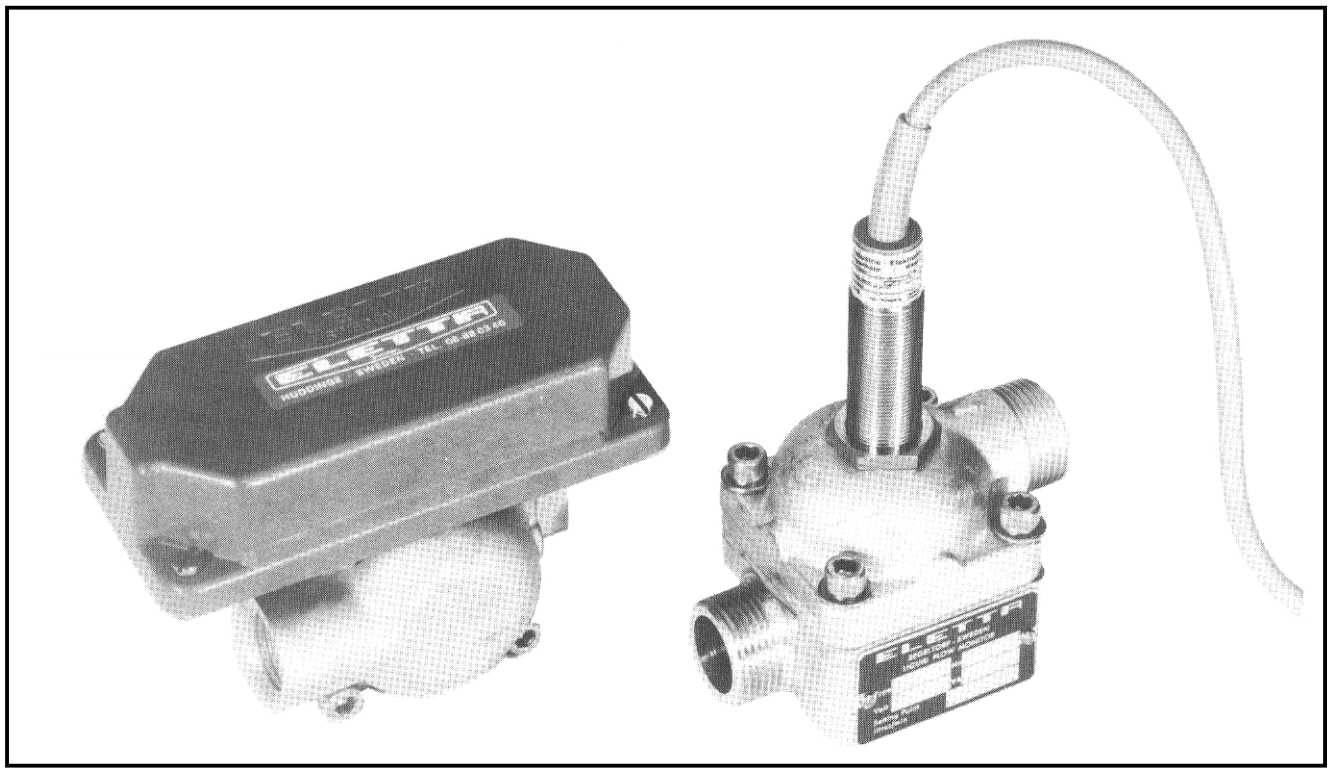
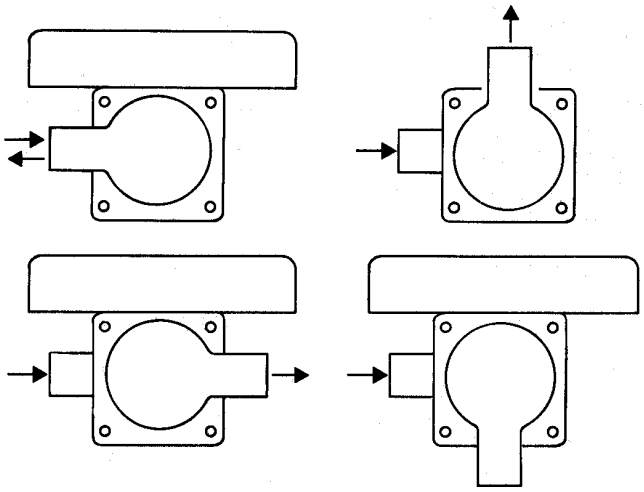
LIQUID FLOW RELAY SP-G, EF-G15-20



DESIGN AND FUNCTION

The liquid flow relays SP-G and EF-G 15-20 are intended for the monitoring and control of flow. The function is based on the flow of the liquid alone and is not affected by the static pressure in the system. The device is particularly suitable for contact-making to issue a signal when the liquid flow tends to approach 0 and in cases where the relay must be able to allow relatively large quantities of liquid to pass without excessive pressure drop. In order to permit such function the instrument has a variable flow passage area, designed in such a way that the flow area increases with increasing liquid flow rate.



MODELS

The relay is available in two models: SP-G with microswitch and EF-G with inductive sensor. For choice of type, see overleaf.

The outlet side can be rotated 90° or 180°. If the relay is installed so that the connection on the outlet side points downwards, drainage is possible. This is necessary where there is a risk of frost. Those parts which come into contact with the liquid are made of stain-resistant brass and stainless steel. The EF-G type also contains an insulation plate of epoxy plastic laminate (NEMA FR4). The relay is also available in an explosion-proof version (Ex) i G5 zone.

INSTALLATION INSTRUCTIONS

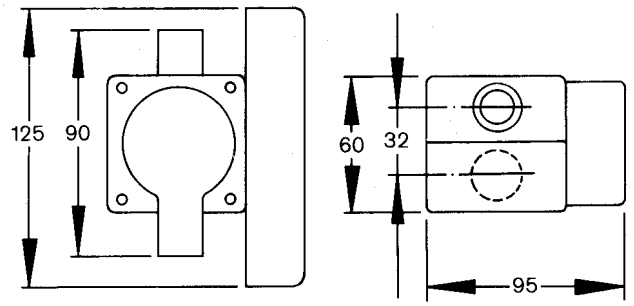
The relay is position-independent and can be installed in any desired position.

The outlet side can be rotated 90° or 180°, as desired.
Direction can be selected on site. It does not have to be stated when ordering.

Make sure that the flow direction agrees with the arrow on the relay body.

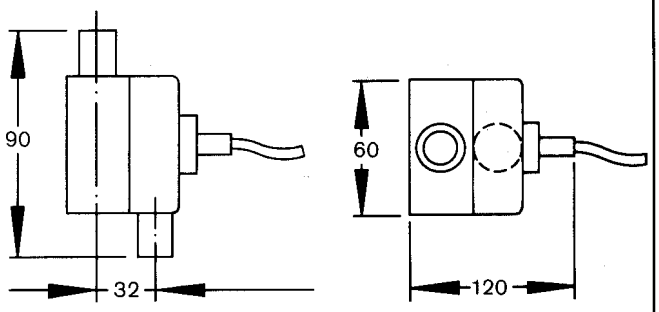
A dirt trap should be installed upstream of the relay.

SP-G



Int. ½"=G15. Ext. ¾"=G20

EF-G

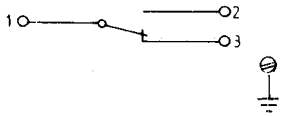


Int. ½"=G15. Ext. ¾"=G20

DATA	SP-G
Max. working pressure	25 bar
Max. temperature standard switch	70°C (158°F)
Max. temperature special switch	150°C (302°F)
Min. temperature	—10°C (+14°F)
Min. function point	approx. 1,5 l/min
Max. function point	approx. 30 l/min
Max. hysteres	approx. 20%
Pressure drop at function point	approx. 0.03 bar
Form of protection as per IEC 144	IP 43
Insulation class as per SEN 2106	2

DATA	EF-G
Max working pressure	100 bar
Max. temperature standard switch	70°C (158°F)
Min. temperature	—20°C (—4°F)
Min. function point	approx. 1,5 l/min
Max function point	approx. 30 l/min
Max hysteres	approx. 20%
Pressure drop at function point	approx. 0.03 bar
Form of protection as per IEC 144	IP 67
Insulation class as per SEN 2106	2

SWITCH SP-G
SWITCH FUNCTION 1-POLE, 2-WAY



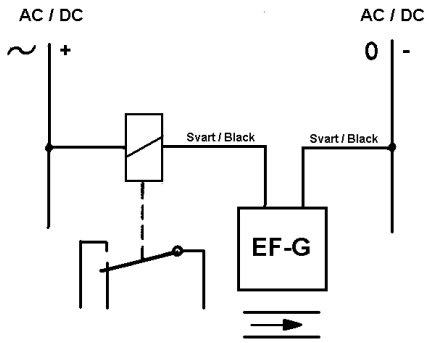
BREAKING CAPACITY

Voltage V	Resistive load A	Inductive load A
AC		
125	5	5
250	5	5
DC		
≤ 30	5	3
50	1	1
75	0,75	0,25
125	0,5	0,06
250	0,25	0,03

ELECTRICAL SPECIFICATION

Switch type	**Inductive proximity sensor**
Operating voltage	**20-265 V AC/DC**
Load current	**min. 5 mA, max. 300 mA**
Output state	**N.O.**

Wiring diagram



SPECIFY WHEN ORDERING

Type
Function point
Medium
Voltage
Contact function (EF-G)
opening or closing at flow.
Working temperature

ELETTA

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