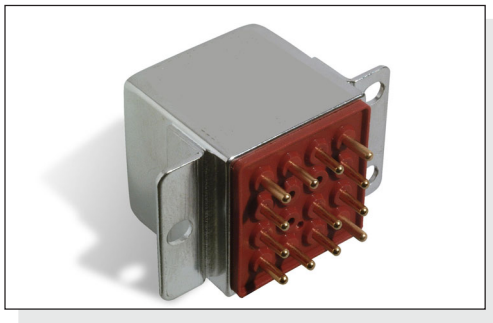




Series REB

**Hermetically sealed time delay single break relay
for severe environmental conditions
2 Pdt 10 Amp**

General characteristics

Metal can, sealed time delay relay, with 2PDT output

Sizes	25,8 x 25,8 x 25,7 mm maxi
Mass	60 g maxi
Timing range	400 ms to 5 400 s
Finish	Tin plated
Mating socket	SRE 410, SME 410 STF 410 see page 9

Operating conditions

Input characteristics

Supply voltage	from 21 to 32 V or from 18 to 32 V (see Temperature range)
Supply current	≤ 140 mA at 28 V
Control voltage	Trigerring is garantee for a pulse of 21 V during 20 ms
Recycle time	50 ms mini
Power loss	1 ms

Output characteristics

Contact rating (28 Vdc or 115 Vac 400 Hz)	10 or 15 A resistive load (see table) 8 or 10 A inductive load
Life at rated current	100 000 cycles

Protections

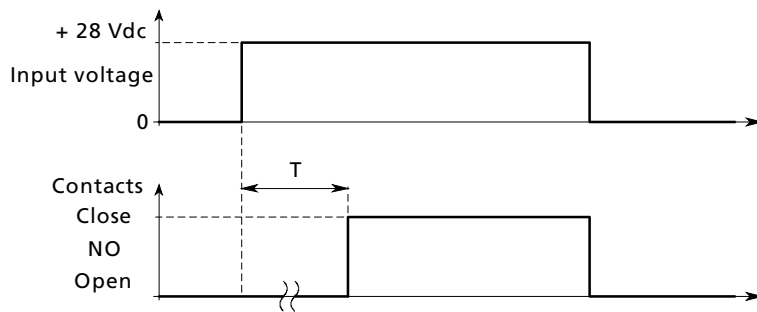
Undamaged by polarity reversal, Voltage tansient per MIL STD 704, EUROCAE DO 160, AIR 2021 D including	
Spikes	± 600 V 10 µs
Power voltage transient	80 V 50 ms
Minimum voltage	8 V 5 ms

Environmental conditions

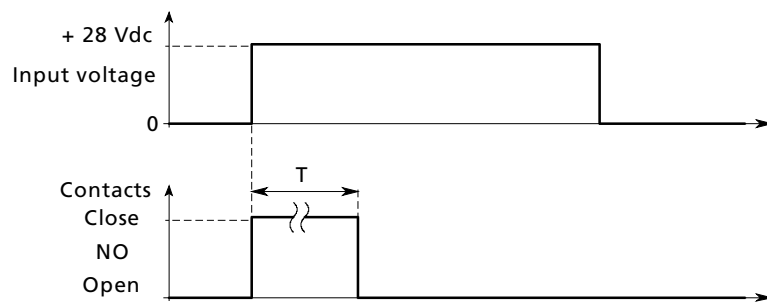
Temperature range	see table
Dielectric strenght	
Between all contacts and case	1 000 V rms
Insulation resistance	> 1 000 MΩ 500 Vdc
Vibrations 3 axis (only mounting styles 2, 3, 10,11 and 12)	30 g 3 000 Hz
Shocks	100 g 6 ms 1/2 sinus
Seal test	1 .10 ⁻⁸ cm ³ atm / s

Timing diagrams

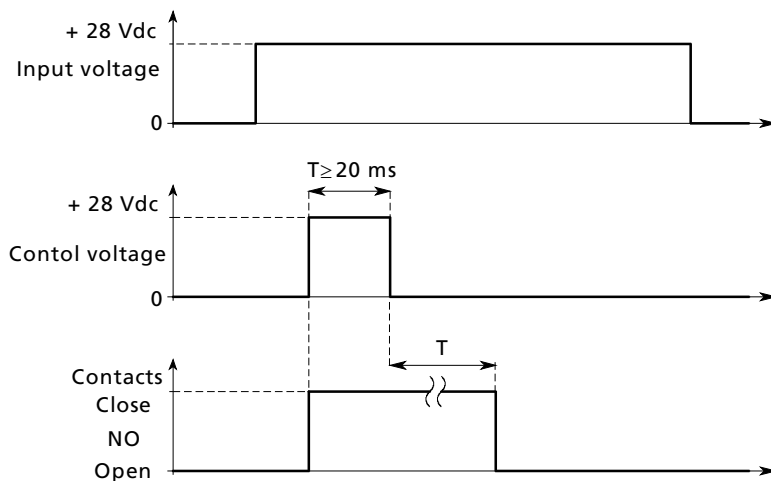
Time delay on operate (code A and B)



Time delay on release (code D and E)



Time delay on release with positive control (code J and L)



Part numbering system

REB 07 A 3000 B A ***

TIME DELAY RELAY

SERIE LETTER

OUTPUT CONTACT NUMBER

CONTACT P/N	Nbr of PDT	Contct rating resistive load
07	2	10 A
09	2	15 A

Key 1 Key 2 Key 3
only for codes Q and T
see pages 7 and 8

TYPE OF OPERATION

- A** Fixed time on operate
- B** Adjustable with external resistor on operate ratio 10
- D** Fixed time on release
- E** Adjustable with external resistor on release ratio 10
- J** Fixed time on release with positive control
- L** Adjustable with external resistor on release with + control

External resistor determination

$$R_x = 10 K \left(\frac{\text{required time}}{\text{minimum time}} - 1 \right)$$

$$\text{Minimum time} = \frac{\text{maximum time defined in the time code}}{10}$$

TIME CODE

Four coded digits with the following meaning
 - first three digits, base time in millisecondes
 - last digits, number of zero to add base time
 ex: 300 ms : code **3000**

MOUNTING STYLE AND HEADER TYPE

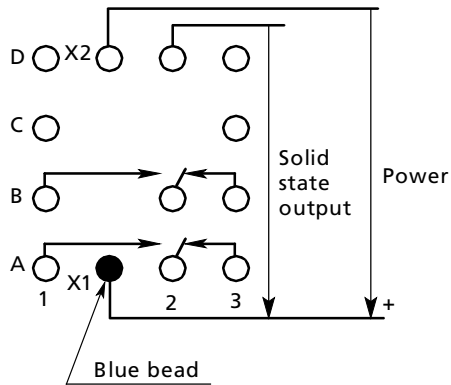
CODE	MOUNTING	HEADER
A	1	E
B	2	B
F	2	A
G	3	A
K	10	B
P	12	B
Q	13	B
R	19	E
T	18	B
W	11	A

see pages 5, 6, 7 and 8

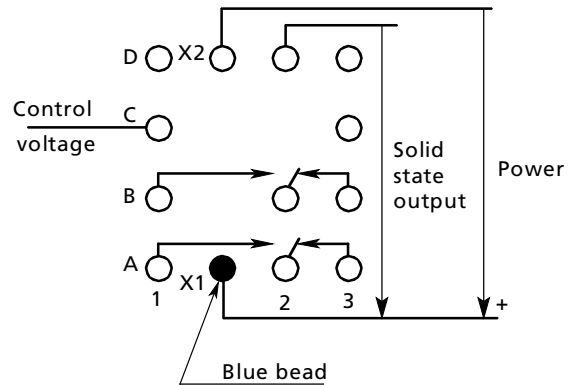
Accuracy and temperature range

SUPPLY VOLTAGE	CODE NUMBER	ACCURACY	TEMPERATURE RANGE
from 21 to 32 V	B	± 10 %	-40°C to +85°C
from 21 to 32 V	C	± 10 %	-55°C to +125°C
from 21 to 32 V	E	± 5 %	-40°C to +85°C
from 21 to 32 V	F	± 5 %	-55°C to +125°C
from 21 to 32 V	H	± 3 %	-55°C to +85°C
from 18 to 32 V	L	± 10 %	-55°C to +85°C
from 18 to 32 V	R	± 10 %	-55°C to +100°C
from 18 to 32 V	S	± 5 %	-55°C to +85°C
from 18 to 32 V	T	± 5 %	-55°C to +100°C
from 18 to 32 V	U	± 3 %	-55°C to +100°C

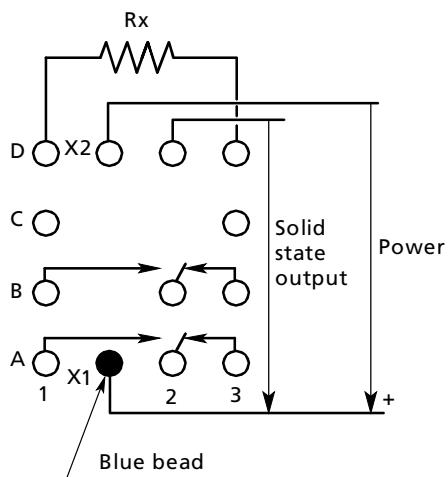
Circuit diagram



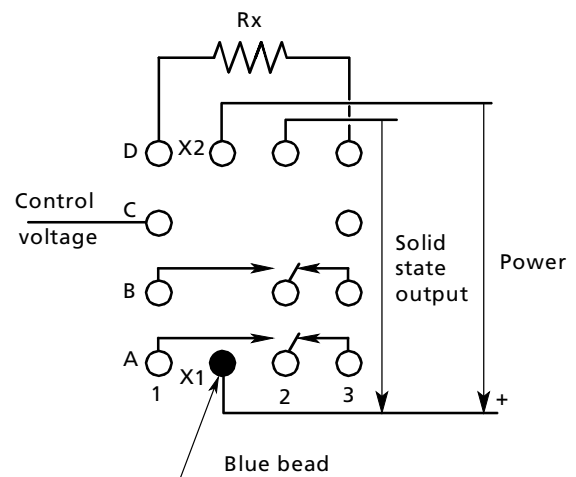
Fixed time
(code A or D)



**Fixed time
with control voltage**
(code J)



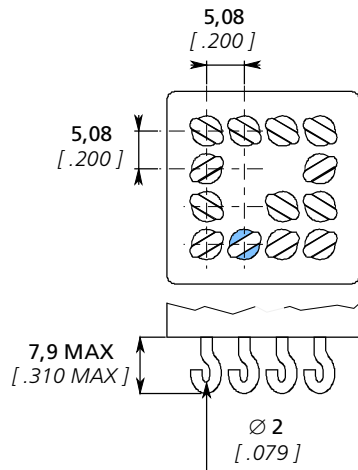
Adjustable with external resistor
(code B or D)



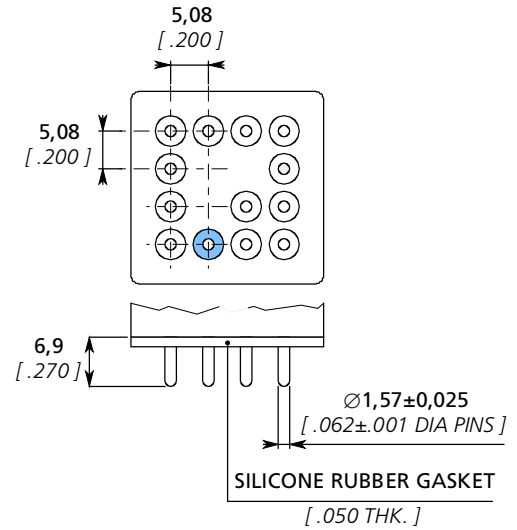
**Adjustable with external resistor
with control voltage**
(code L)

Viewed from terminals side

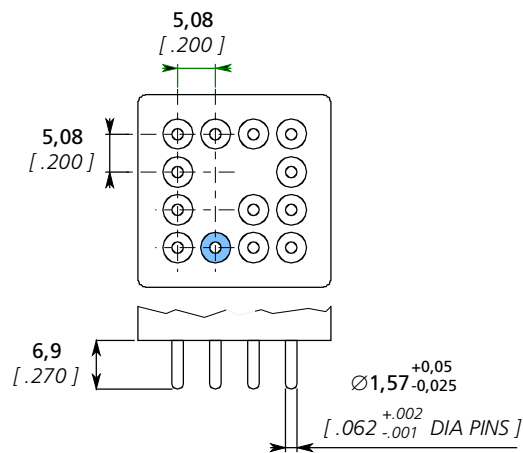
Termination styles



Type **A**
Solder hooks

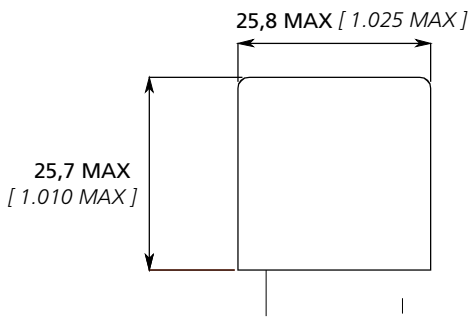
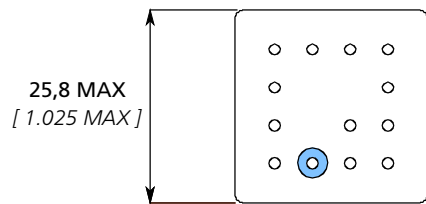


Type **B**
Gold plated pins, plugs-in socket

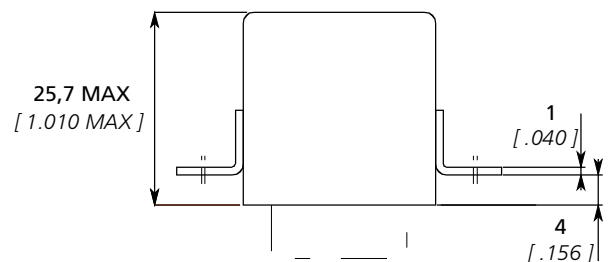
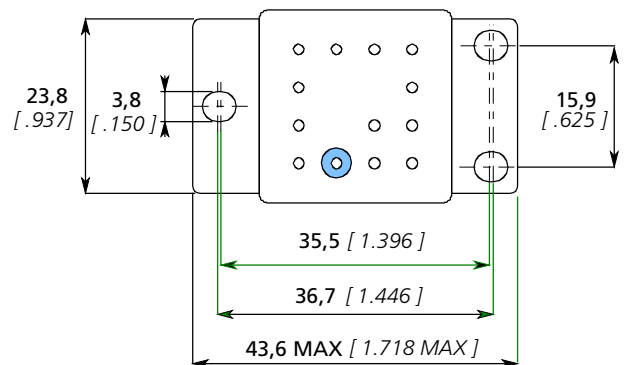


Type **E**
Tinned terminal, PCB mounting

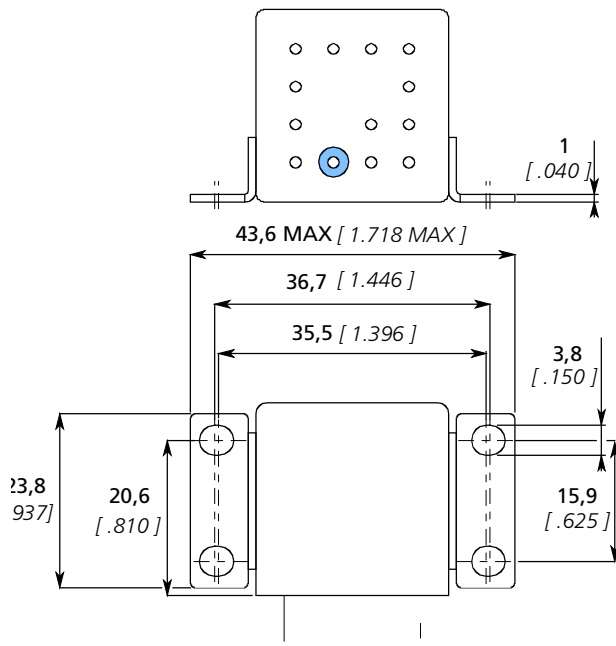
Mounting styles



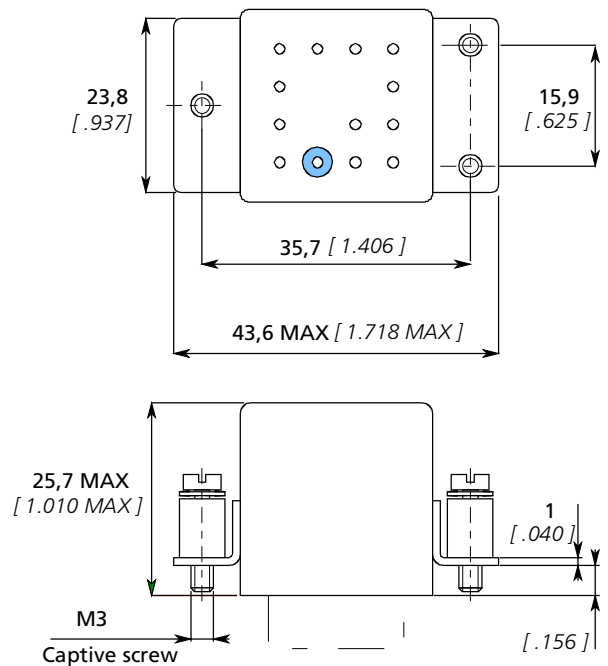
Housing **1**



Housing **2**

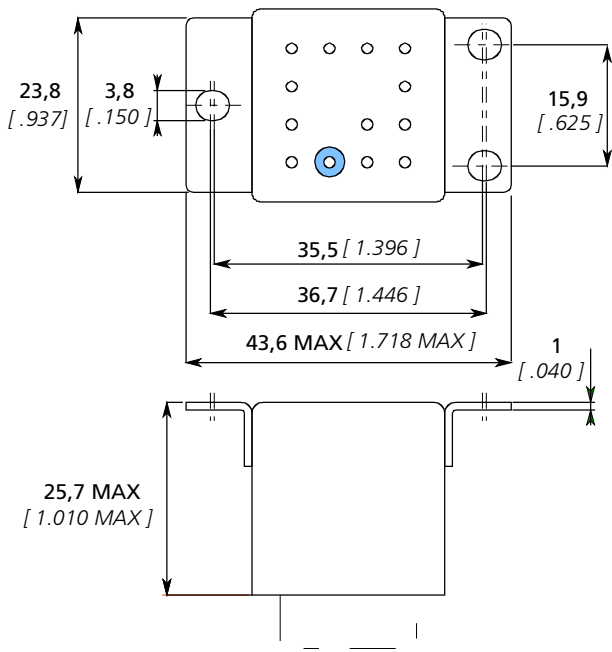


Housing **3**

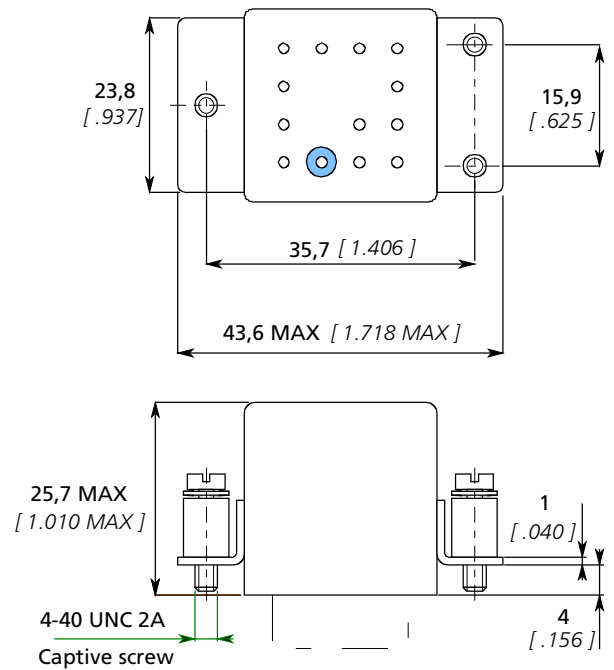


Housing **10**

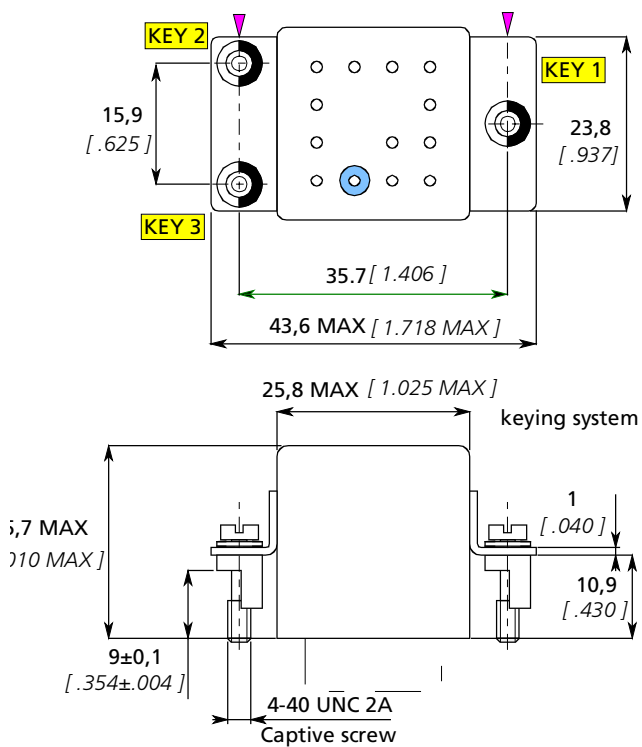
Coupling torque 0,45 m.N



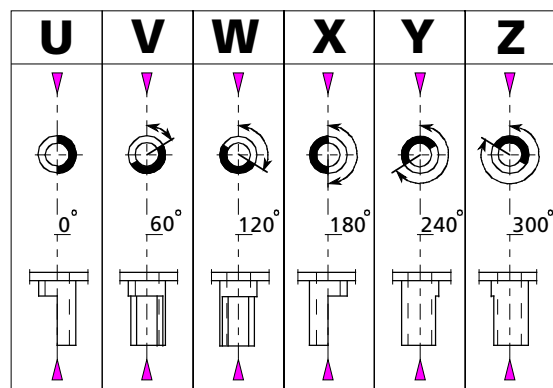
Housing **11**



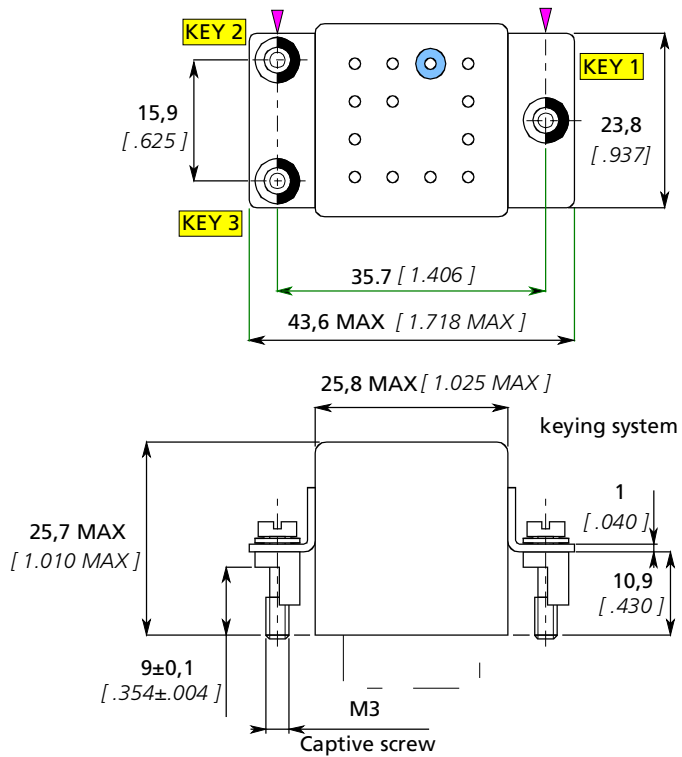
Housing **12**



Housing **13**

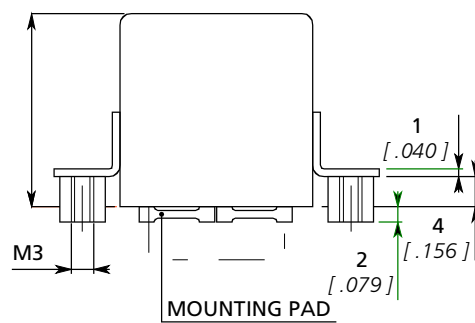
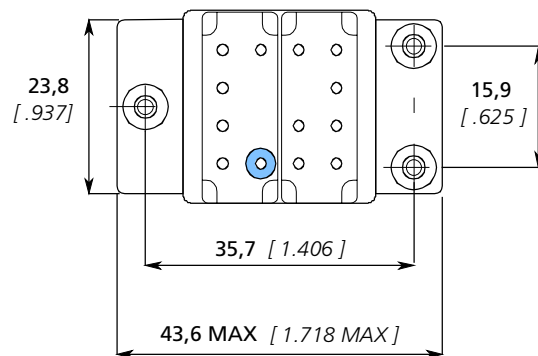


Coupling torque, 45 m.N



U	V	W	X	Y	Z
0°	60°	120°	180°	240°	300°

Housing **18**



Housing **19**

Coupling torque 0,45 m.N

Relay sockets proposal

SOCKETS WITH NON REMOVABLE CONTACTS

REB	SOKETS
REB **** *B	SFE 410 B 2 * *
REB **** *K	SFE 410 B 2 * *
REB **** *T ***	SFE 410 B 5 * *

SOCKETS WITH REMOVABLE CONTACTS

REB	SOCKETS
REB **** *B	SRE 410 B * V *
REB **** *B	SME 410 B 2 B *
REB **** *B	SFI 410 B 1 B *
REB **** *K	SRE 410 B * V *
REB **** *K	SME 410 B 3 K *
REB **** *K	SFI 410 B 1 B *
REB **** *T ***	SME 410 B 2 G *
REB **** *T ***	SFI 410 B 1 A *
REB **** *Q ***	SFI 410 T 2 A *