BUILT-IN MICROSWITCH TYPE Q

TYPE Q Hz (low hysteresis)

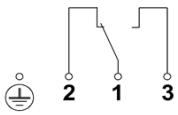
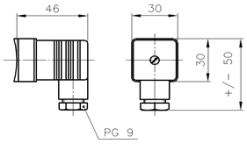
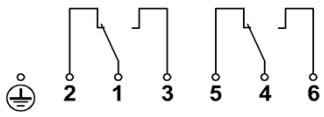
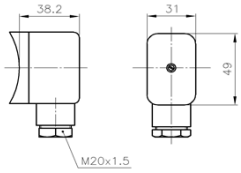
STANDARD MODEL	
INSTRUMENT	: class 1
MINIMAL RANGE	: 60 ℃
CONNECTOR	: cable junction box, SEE BELOW
HYSTERESIS	: max. 1% up and down
SETPOINT(S)	: from outside
WINDOW	: PMMA - plexiglass
POINTER	: micro adjustable
CONTACT POINTER(S)	: first red, (second yellow)

example: TXC100XB + Q - 33 Hz

Class 1 and 5 Amp!!

ELECTRICAL SWITCH CAPACITY

125 Vac	: 5A (ind. load 3A)
250 Vac	: 3A (ind. load 2A)
DC 30 V	: 5A (ind. load 3A)
DC 125 V	: 0.4A (ind. load 0,4A)
DC 250 V	: 0.2A (ind. load 0,2A)

CONTACT TYPE	SWITCH FUNCTION	CABLE JUNCTION BOX	CASE DIMENSIONS			
			100	160	96x96	144x144
Q - 3 Hz* *Potential free **SPDT**		 Hirschmann				
Q - 33 Hz* *Potential free **DPDT**		 Wiebrock				
OPTION			**EXTRA COSTS**			
SETPOINT	**FIXED SETPOINT (without setpoint adjustment)**		0	0	0	0

LIQUID FILLING NOT POSSIBLE WITH MICROSWITCH

BUILT-IN INDUCTIVE CONTACT TYPE I

TYPE I Hz

INSTRUMENT	: class 1
MINIMAL RANGE	: 60 °C
CONNECTOR	: cable junction box, SEE BELOW
HYSTERESIS	: max. 1% up and down
SETPOINT(S)	: from outside with key
WINDOW	: PMMA - plexiglass
POINTER	: black
CONTACT POINTER(S)	: red

example:

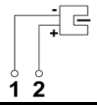
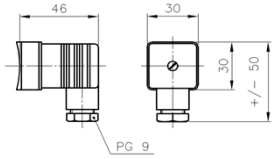
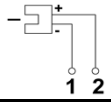
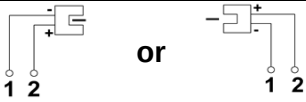
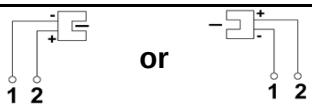
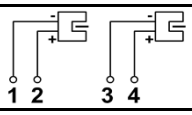
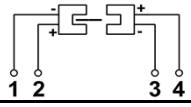
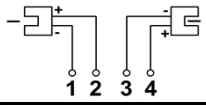
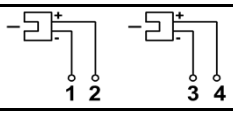
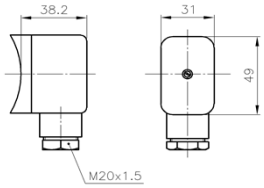
TXC100XB

+ I-x Hz

Also available with:

ELECTRICAL SWITCH CAPACITY

Nominal voltage	**: 8VDC (Ri=1 Kohm)**
Explosion proof	**: EEx ia II C T6**
Regulations	**: EN 60947-5-2**

CONTACT TYPE	**SWITCH FUNCTION OPERATING CURRENT**	**CABLE JUNCTION BOX**	**CASE DIMENSIONS**				
			100	**160**	**96x96**	**144x144**	**72x144**
I-1 Hz *Si 2-K08-Y1 (Turck)*							
I-2 Hz *Si 2-K08-Y1 (Turck)*							
I-x Hz+2SN *SJ 2 SN (Pepperl+Fuchs)*				N.A.		N.A.	
I-x Hz+3.5SN *SJ 3.5 SN (Pepperl+Fuchs)*		Hirschmann	N.A.		N.A.		N.A.
I-11 Hz *Si 2-K08-Y1 (Turck)*							
I-12 Hz *Si 2-K08-Y1 (Turck)*				SJ3.5N		SJ3.5N	
I-21 Hz *Si 2-K08-Y1 (Turck)*				SJ3.5N		SJ3.5N	
I-22 Hz *Si 2-K08-Y1 (Turck)*							
I-xx Hz+2SN *SJ 2 SN (Pepperl+Fuchs)*	function to be specified at order			N.A.		N.A.	
I-xx Hz+3.5SN *SJ 3.5 SN (Pepperl+Fuchs)*	function to be specified at order		N.A.		N.A.		N.A.
I-xxx Hz *Si 2-K08-Y1 (Turck)*	function to be specified at order		O.D.	O.D.	O.D.	O.D.	N.A.
I-xxxx Hz *Si 2-K08-Y1 (Turck)*	function to be specified at order	Wiebrock	O.D.	O.D.	O.D.	O.D.	N.A.
OPTION			**EXTRA COSTS**				
Lx	**LIQUID FILLED CASE (ONDINA)**				N.A.	N.A.	N.A.

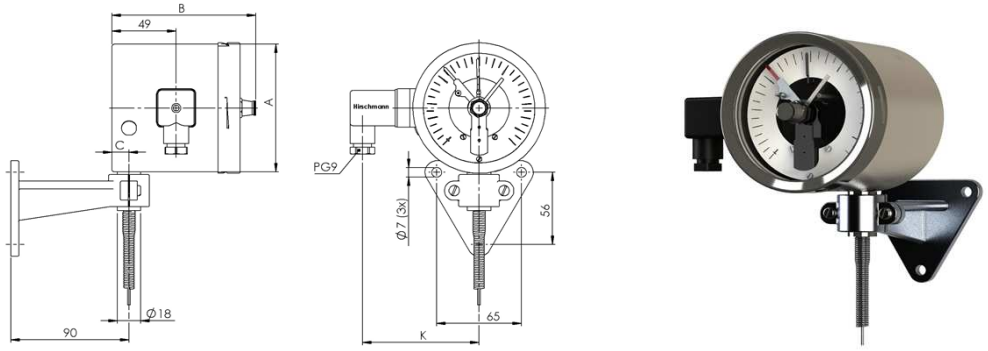
THERMOMETERS TYPE TXC WITH CONTACT

TYPE	DRAWING	DIMENSIONS [mm]

A

TXCxxxXA

Hirschman cable junction box

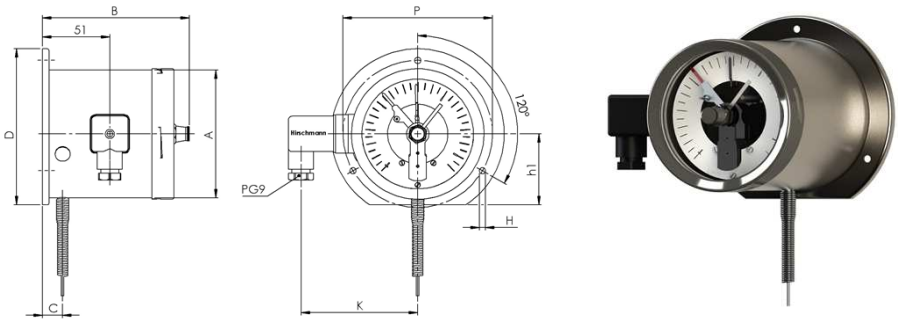


DIM.	CASE DIAMETER	
	100	**160**
A	101	161
B	107	108
C	13	13
K	89	119

B

TXCxxxXB

Hirschman cable junction box

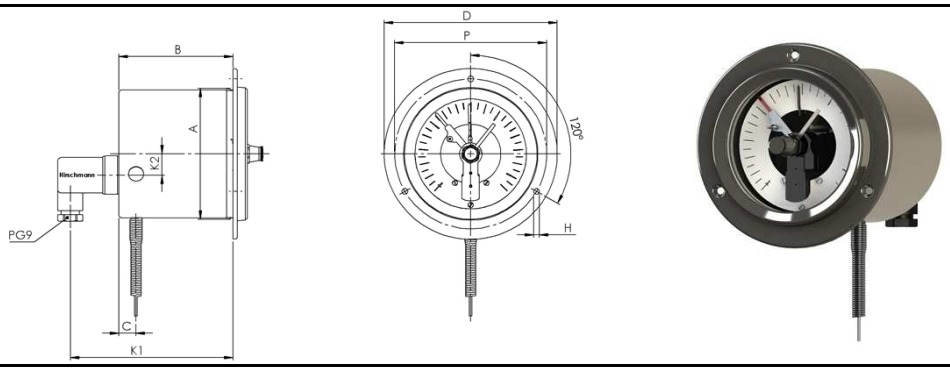


DIM.	CASE DIAMETER	
	100	**160**
A	101	161
B	110	112
C	16	20
D	132	196
H	4,8	5,8
h1	55	86
P	114	178
K	89	119

D

TXCxxxXD

Hirschman cable junction box



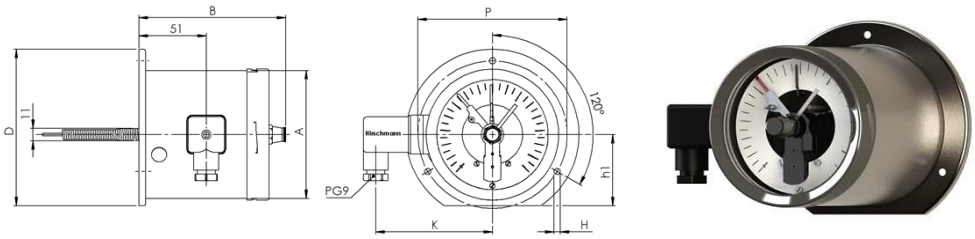
DIM.	CASE DIAMETER	
	100	**160**
A	101	161
B	84	84
C	13	13
D	132	196
H	4,5	6
P	116	178
K1	121	121
K2	16,5	0*

* 54 mm to the left (front view)

F

TXCxxxXF

Hirschman cable junction box

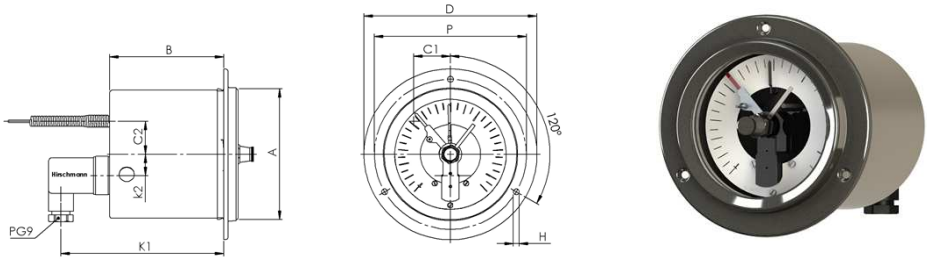


DIM.	CASE DIAMETER	
	100	**160**
A	101	161
B	110	112
D	132	196
H	4,8	5,8
h1	55	86
P	114	178
K	89	119

G

TXCxxxXG

Hirschman cable junction box



DIM.	CASE DIAMETER	
	100	**160**
A	101	161
B	84	84
C1	28	0
C2	25	0
D	132	196
H	4,5	6
P	116	178
K1	121	121
K2	14,5	0*

* 54 mm to the left (front vieuw)

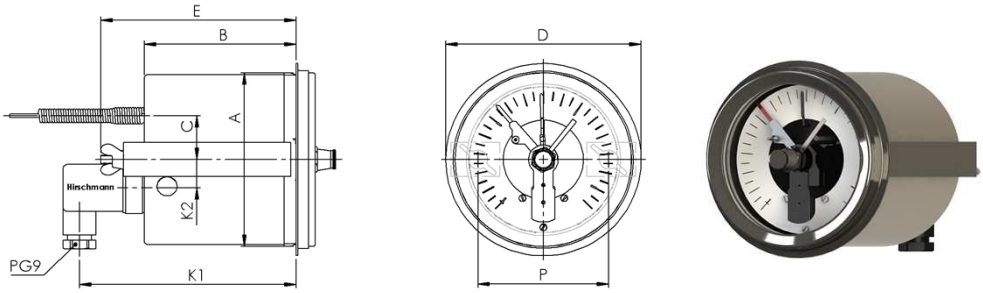
THERMOMETERS TYPE TXC WITH CONTACT

TYPE	DRAWING	DIMENSIONS mm

H

TXCxxxXH

Hirschman cable junction box



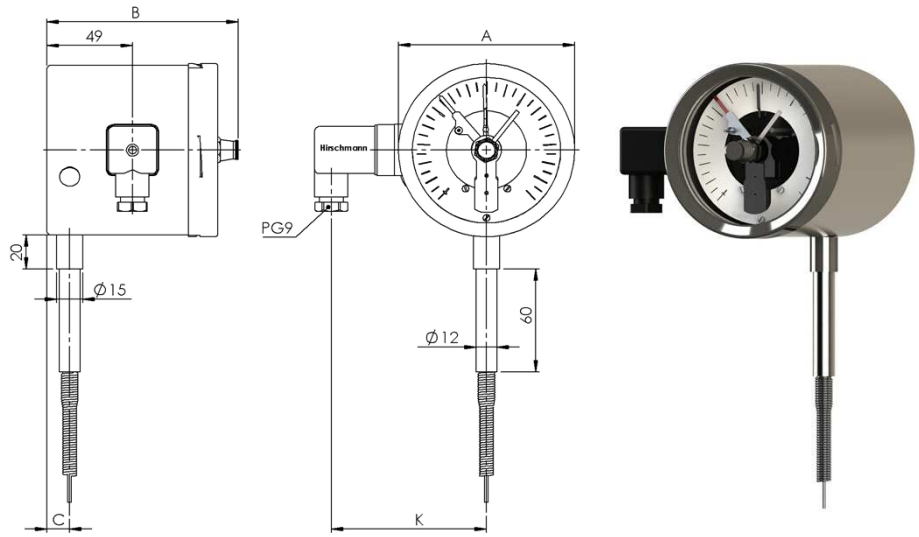
DIM.	CASE DIAMETER	
	100	**160***
A	101	161
B	87	88
C	25	25
D	112	180
E	112	113
P	75	139
K1	124	125
K2	16	45

* U-clamp mounted vertical

I

TXCxxxXI

Hirschman cable junction box



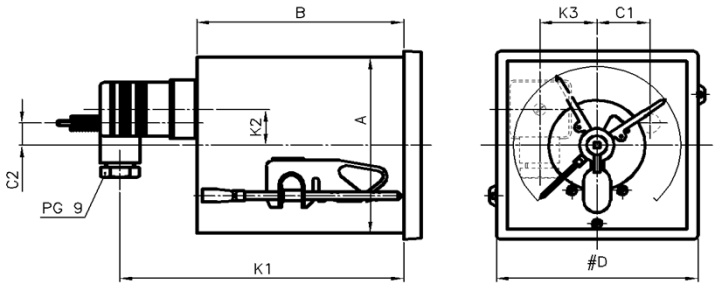
DIM.	CASE DIAMETER	
	100	**160**
A	101	161
B	107	108
C	13	13
K	89	119

THERMOMETERS TYPE TPC WITH CONTACT

S

TPCxxxXS

Hirschman cable junction box

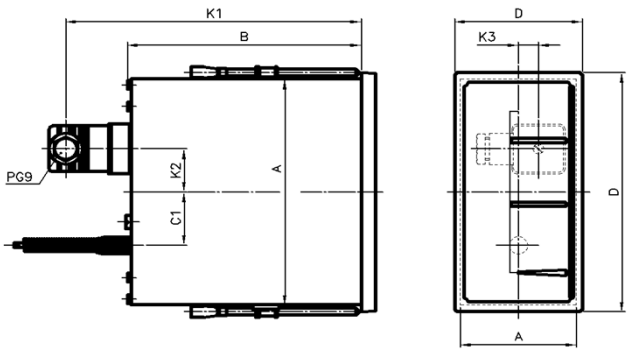


DIM.	CASE DIMENSIONS	
	96x96	**144x144**
A	90x90	138x138
B	99	136
C1	25	0
C2	11	0
D	96x96	144x144
K1	142	180
K2	18	16
K3	27	41

H / V

TPCxxxXH
TPCxxxXV

Hirschman cable junction box



DIM.	CASE DIMENSIONS
	72x144
A	66x136
B	130
C1	32
D	72X144
K1	173
K2	26
K3	11

ADD-ON UNITS WITH ELECTRICAL CONTACTS FOR THERMOMETERS

ADD-ON UNIT (built on top of dial) with PG cable conduit and 1500 mm cable			
DIN16085/16196 *TYPE*	**Switch function in clockwise direction**	**EXTRA COSTS** CASE DIMENSIONS (in mm)	
MAGNETIC ADD-ON CONTACT (=30W/~50VA), TYPE: M		**Ø 100**	**Ø 160**
M -1	contact closes		
M -2	contact opens		
M -3	single change-over contact (SPDT)		
M -11	1st contact closes, 2nd contact closes		
M -12	1st contact closes, 2nd contact opens		
M -21	1st contact opens, 2nd contact closes		
M -22	1st contact opens, 2nd contact opens		
M -xx+GS	double acting contact with separate circuits		
M -xxx	triple acting contact, 1=closes, 2=opens		
INDUCTIVE ADD-ON CONTACT (=8V, Ri=1 kohm, EEx ia IIC T6), TYPE: I		**Ø 100**	**Ø 160**
I -1	contact closes (operating current)		
I -2	contact opens		
I -x+SN	single contact with safety oscillator (SN)		
I -11	1st contact closes, 2nd contact closes		
I -12	1st contact closes, 2nd contact opens		
I -21	1st contact opens, 2nd contact closes		
I -22	1st contact opens, 2nd contact opens		
I -xx+SN	double contact with safety oscillator (SN)		

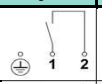
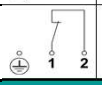
OPTIONS FOR ELECTRICAL CONTACTS

OPTIONS	**DESCRIPTION**	**Ø 100**	**Ø 160**	**96 x 96**	**144 x 144**	**72 x 144**
OIL FILLING	for HZ electrical contacts only			N.A.	N.A.	N.A.
CABLE	Cable connected to junction box for HZ electrical contacts	First 1500 mm:		per 1000 mm extr		
MSR-010	Protection relay for single acting contacts (supply 230Vac)					
MSR-020	Protection relay for double acting contacts (supply 230Vac)					
WE 77/Ex-1	Protection relay for single inductive contacts Eex ia ib IIC 230Vac					
WE 77/Ex-2	Protection relay for double inductive contacts Eex ia ib IIC 230 Vac					

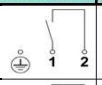
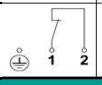
INTERNATIONAL EXPLANATION OF CONTACT FUNCTIONS

CONTACT FUNCTIONS EXPLAINED WITH CLOCKWISE POINTER ROTATION

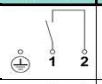
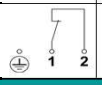
English

STIKO contact	Magnetic	Inductive	Electrical	Translation:		
1				**NO**	**HIGH**	Normally open; makes on rise
2				**NC**	**LOW**	Normally closed, breaks on rise

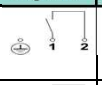
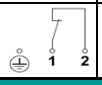
Deutsch

STIKO contact	Magnetspring	Induktiv	Elektronik	Übersetzung:	
1				**NO**	Schließer
2				**NC**	Öffner

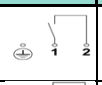
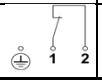
Français

STIKO contact	Magnétique	Inductive	Électronique	Traduction:		
1				**FM**	**MAXI**	Fermeture a maxima
2				**OM**	**MINI**	Ouverture a maxima

Italiano

STIKO contact	Magnetico	Induttivo	Elettrico	Traduzione	
1				**NA**	Normalemente aperto
2				**NC**	Normalemente chiuso

Español

STIKO contact	Magnético	Inductivo	Eléctrico	Traducción	
1				**NA**	Normalemente abierto
2				**NC**	Normalemente cerrado