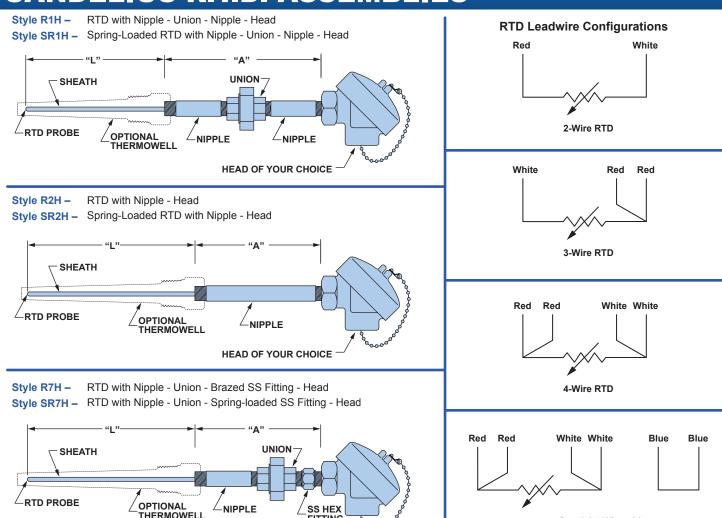
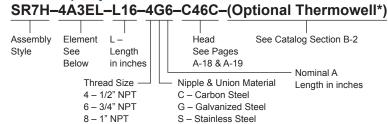
SANDELIUS R.T.D. ASSEMBLIES



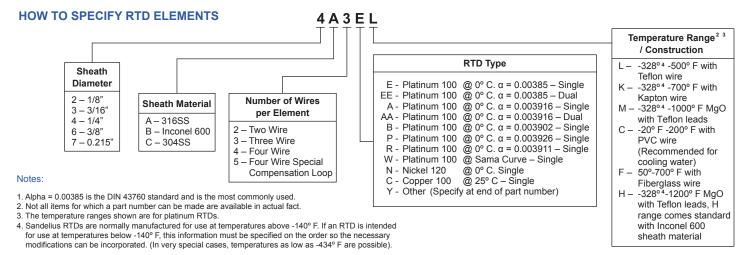
To Order specify:



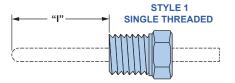
HEAD OF YOUR CHOICE

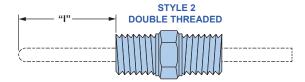
*To order an assembly complete with a thermowell simply insert the part number of the thermowell from Sandelius catalog Section B. When ordering an assembly complete with a thermowell, the "L" length may be shown as "00" as we will size the element to fit the thermowell.

Special 4-Wire with Compensation Loop



FIXED FITTINGS - ARE BRAZED OR WELDED TO THE SHEATH

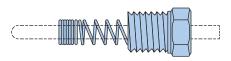




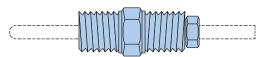
ORDER SYMBOL		THREAD SIZE	MATERIAL	AVAILABLE TO FIT THESE SHEATH O.D. SIZES	
STYLE 1	STYLE 2	I TIREAU SIZE	WAIERIAL	AVAILABLE TO FIT THESE SHEATH O.D. SIZES	
F11	F21	1/8" NPT	304SS	0.063, 0.125, 0.188 & 0.250	
F12	F22	1/4" NPT	304SS	0.063, 0.125, 0.188, 0.250, 0.313 & 0.375	
F14	F24	1/2" NPT	304SS	0.063, 0.125, 0.188, 0.250, 0.313, 0.375 & 0.500	
F16	F26	3/4" NPT	304SS	0.063, 0.125, 0.188, 0.250, 0.313, 0.375 & 0.500	
F18	F28	1" NPT	304SS	0.063, 0.125, 0.188, 0.250, 0.313, 0.375 & 0.500	

SPRING-LOADED FITTINGS

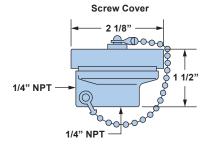
STYLE 1 - SINGLE THREADED



STYLE 2 – DOUBLE THREADED



ORDER SYMBOL		THREAD	MATERIAL	ODDING TVDE	AVAILABLE QUEATU QUEO
STYLE 1	STYLE 2	NPT SIZE	MATERIAL	SPRING TYPE	AVAILABLE SHEATH SIZES
SF14	SF24	1/2" NPT	304SS	Adjustable	0.125, 0.188, 0.250, 0.312 & 0.375
SB14	-	1/2" NPT	BRASS	Adjustable	0.125, 0.188, 0.250, 0.312 & 0.375
SPF14	SPF24	1/2" NPT	304SS	Adjustable with Liquid-tight O-Ring	0.125, 0.188 & 0.250

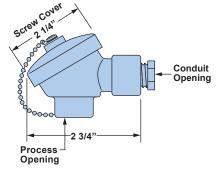




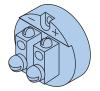
Miniature Weatherproof Thermoset Plastic Head

1/4" NPT x 1/4" NPT with 4 Integral Terminals

Part Number	Ambient Temperature Rating
N22	350° F
W22	800° F





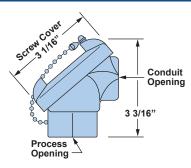




Ceramic Terminal Blocks Fit Miniature Head Type: M

Part Number	Description
CP122	2 - Terminals
CP124	4 - Terminals

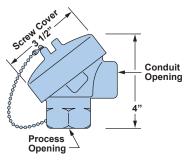
TERMINAL HEADS & CONNECTOR BLOCKS



Standard Weatherproof Heads

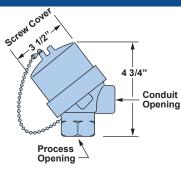
(Use "162 Series" Ceramic Terminal Blocks) Max. number of terminals: 6+Ground.

Part Number ¹	Type	Description
P46*	Р	Polypropylene
PW46*	PW	White Polypropylene ² (FDA Compliant)
Q46*	Q	Aluminum
R46*	R	Cast Iron



Large Weatherproof Heads (Use "162 Series" Ceramic Terminal Blocks) Max. number of terminals: 6+Ground.

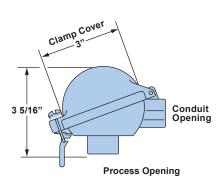
Part Number ¹	Type	Description
A46*	Α	Aluminum
C46*	С	Cast Iron



Large Dome Cover Weatherproof Heads

(Use "162 Series" Ceramic Terminal Blocks) Max. number of terminals: 6+Ground.

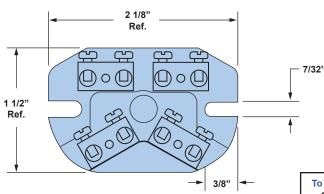
Part Number ¹	Type	Description
D46*	D	Cast Iron



Weatherproof Aluminum Head

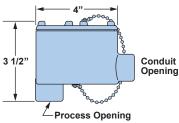
(Use "162 Series" Terminal Blocks) Max No. of Terminals: 6 + Ground

Part Number ¹	Type	Description
H44*	Н	1/2" x 1/2" NPT
H46*	Η	1/2" x 3/4" NPT



163 Series Ceramic terminal blocks Fits All Heads, must be used for 8g- wire

Part Number	Number of Terminals
CP163B	2
CP163D	4



Screw Cover

Large Explosion Proof Heads

(Standard Terminal Block is CP129) Max No. of Terminals: 6 + Ground

Part Number ¹	Type	Description
E46*	E	Aluminum
F46*	F	Cast Iron/Afuminum

To Order Any Head On This Page

C 4 6 B Connector block if required. B – 2 Terminals

C - 3 Terminals F - 6 Terminals D-4 Terminals Conduit Opening (See table A below) Process Opening (See table A below) -Head Type

If a tapped internal ground screw is required insert a "G" in front of the part number.

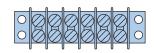
Table A -Connection Sizes (All heads on this page)

NPT ORDER		Available on Head Types		
SIZE	CODES	PROCESS	CONDUIT	
1/2	4	All	All	
3/4	6	All except H+P	All	
1	8	ABCDEF&R	E&F	

Notes:

- To order heads complete with terminal block add suffix to specify the number of terminals required B=2 terminals, C=3 terminals, etc.
- 1. Unless otherwise noted, all head part numbers shown are for heads with 0.5" NPT process openings and 0.75" NPT conduit openings. See Table A for other available sizes.
- 2. PW series heads may be specially ordered with molded-in terminals. To order insert an "M" before the number of terminals required. Example: PW46MF would have 6 molded-in terminals.
- Type E & F explosion proof heads are approved for Class 1, Groups B, C, & D; Class 2, Groups E, F & G; Class 3, All Groups.
- Type F explosion proof heads have cast iron bodies with aluminum covers.
- 5. Aluminum & Cast Iron heads are available with epoxy coating add an "X" after the type designation. Example: QX46D.

6. Some NPT sizes are achieved through the use of reducing bushings



CP129 & CP130 Terminal Strips

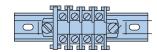
CP129 (3/8" spacing) is standard in E & F type heads.

CP130 (7/16" spacing) available with compensated terminals is commonly used in junction boxes.

To Order Specify

CP130-12-K

Type of Optional Compensated Terminals (Available on CP130 only) Number of Terminals (20 max.) Part Number



CP140 Tubular Clamp Type Terminal Strip

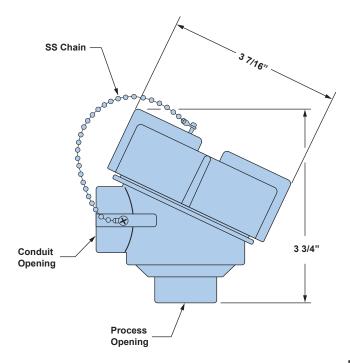
Commonly used in junction boxes. May be specified as an option for E & F type heads.

To Order Specify

CP140-10

Number of Terminals Part Number

TERMINAL HEADS & CONNECTOR BLOCKS

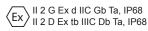


	Standard Terminal Block B - 2 Terminal Block (CP162B) C - 3 Terminal Block (CP162C) D - 4 Terminal Block (CP162D) F - 6 Terminal Block (CP162F) Leave blank if no Terminal Block Connection Code (See Table B)
L	Basic Part Number (See Table A)

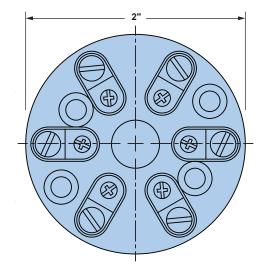
TABLE A - Basic Part Numbers					
Part Number Material					
AE	Aluminum, Explosion Proof				
AEX	Epoxy Coated Aluminum, Explosion Proof				
SE	316SS, Explosion Proof				

Table B – Connection Code							
Code	Process Opening	Conduit Opening					
44	1/2" NPT	1/2" NPT					
45	1/2" NPT	M20 x 1.5					
46	1/2" NPT	3/4" NPT					
66	3/4" NPT	3/4" NPT					

FM/CSA APPROVALS: CLASS 1, DIV. 1, GROUPS B, C & D and Dust Ignitionproof for Class II, Div. 1, Group E, F and G, Class III Type 4X and IP68



IECEx Approvals: Ex d IIC Gb Ex tb IIIC Db



Part Number	Number of Terminals		
CP162B	2		
CP162C	3		
CP162D	4		
CP162E	5		
CP162F	6		

NOTICE - CONFIDENTIAL INFORMATION
This document and all information contained herein are the property of Sandelius Instruments
Inc. and is furnished in strickt confidence.
Recipients agree not to duplicate or disclose this document, in whole or part, to others without written permission and shall return this document upon request.

REVISIONS		Sandelius Instruments, Inc.					
NO.	DATE	BY				ndelius.com	
1.			TERMINAL BLOCK				
2.							
3.			DRAWN BY TJM	SCALE	NTS	MATERIAL Noted	
4.			CHK'D	DATE	2/17/16	DRAWING NUMBER	
5.			TRACED	APP'D		CP163	

A-19