

DREXELBROOK[®]

6012 / 6013 Series

Conductivity Switches



Economical level switch

The B/W 6012/6013 conductivity switches offer an economical solution to measurement of most conductive liquids.

Multiple switch points

The B/W conductivity switch offers single point or up to 13 switch points mounted in one electrode holder.

Various Electrodes Available

Both rigid and wire suspended electrodes are available in a wide variety of materials and temperature/pressure specifications.

Suitable for many Applications

Applicable to conductive liquids for high or low level indication, pump control, and stop fill on storage vessels.

A simple device that utilizes the conductive properties common to aqueous liquids to provide reliable point level measurement. The electrodes are suspended in the vessel and when the material being measured makes contact with the electrodes, a circuit is completed which actuates a B/W relay.

Conductivity switches can be connected to B/W relay modules to provide control or alarm contacts. Relays are available for general purpose and with intrinsically safe outputs for hazardous areas.

B/W Conductivity electrodes and holders are available in a variety of materials for use in many different process liquids.

6012 Electrode Holders Specifications

Material of Construction:

316SS, Cast Iron, PVC, Brass

Number of switch points:

Up to 13

Operating Temperature:

Up to 450°F

Operating Pressure:

Up to 2000 psi

6013 Electrodes Specifications

Material of Construction:

316 SS, Brass (other materials available)

Maximum Length of electrodes:

Rigid up to 10 feet / Wire suspended up to 200 feet (longer lengths available)

Operating Temperature:

Up to 450 Degrees F

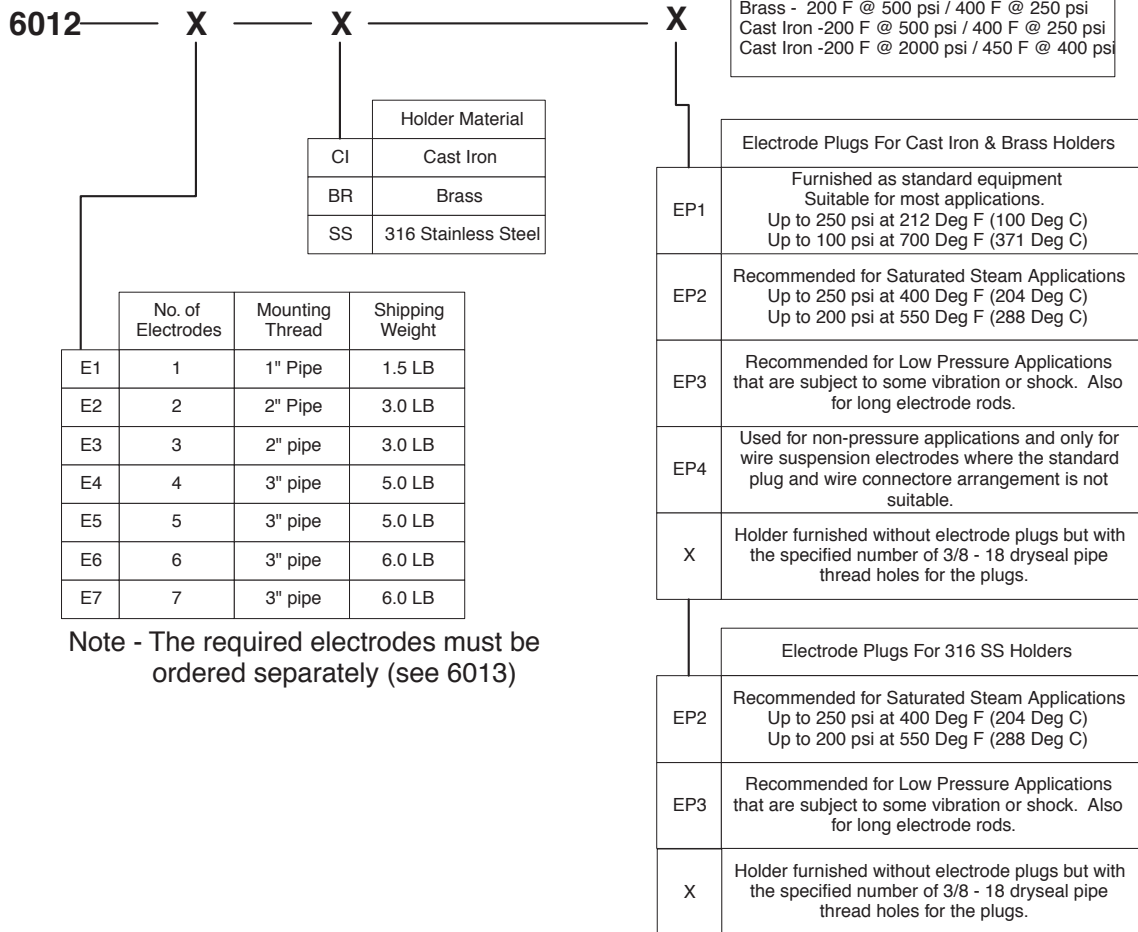
Operating Pressure:

Up to 2000 psi

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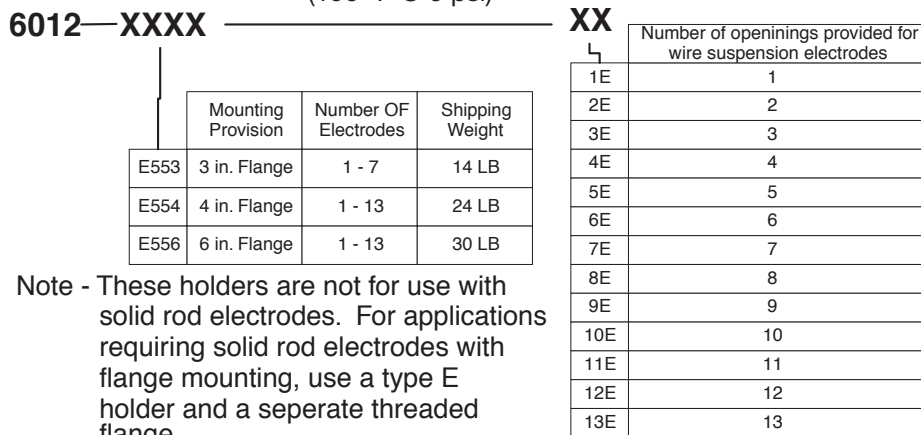
Model Numbering

Cast, Pressure-Tight, Electrode Holders



Flanged Cast Iron Electrode Holders

(190° F @ 0 psi)



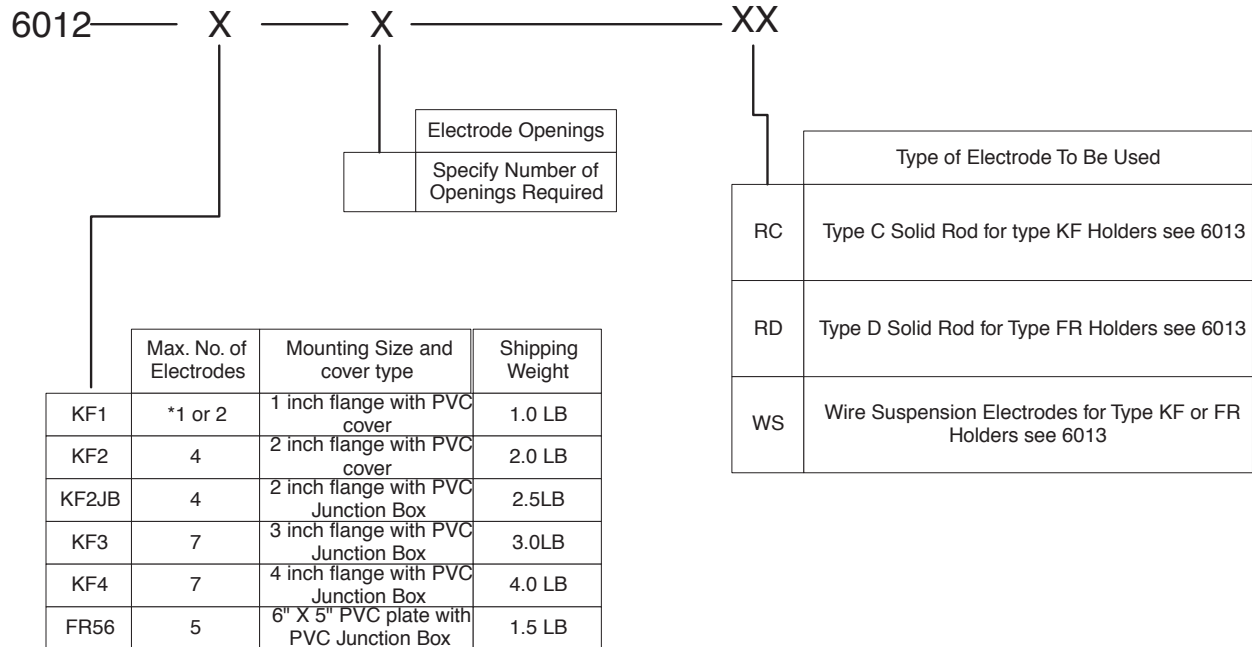
Note - These holders are not for use with solid rod electrodes. For applications requiring solid rod electrodes with flange mounting, use a type E holder and a separate threaded flange.

Note: The required wire suspension electrodes must be ordered separately (see 6013)

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Model Numbering

PVC Electrode Holders (180° F @ 0 psi)



* One bare rod or wire suspension electrode, or two insulated rods.

Molded Electrode Holders (Butyrate 100° F @ 200 psi / 160° F @ 0 psi) (Nylon 200° F @ 200 psi / 350° F @ 0 psi)

6012—XXXX

	Description
CE2B	Butyrate Holder with Two holders for Type 6B Electrodes 1"-14 Straight Threads
CE2N	Nylon Holder with Two Holders for Type 6B Electrodes 1"-14 Straight Threads

6012—XXXX

	Description
CE3B	Butyrate Holder with Three holders for Type 6B Electrodes 1"-14 Straight Threads
CE3N	Nylon Holder with Three Holders for Type 6B Electrodes 1"-14 Straight Threads

Note - Max recommended bare rod length for type CE holders is 12 inches. Not for use with wire suspension electrodes.

Note - The required electrodes must be ordered separately (see 6013)

6012 / 6013 Series

Model Numbering

Wire Suspension Electrodes

6013 — XX

Note - Wire Suspension Electrodes W1 through W6 are field assembled and the required amount of Wire must be ordered separately (see 6013-SW-XX)

Suspension Wire
6013 — SW — XX

Type SW wire Length in Feet	
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	Electrode Type	Electrode Material
W1	E-1P With Shield for non-corrosive liquids Diameter = 1 7/16"	Brass
W2	E-1P With Shield for non-corrosive liquids Diameter = 1 7/16"	303 Stainless
W3	E-1P Less Shield for non-corrosive liquids Diameter = 1/8"	Brass
W4	E-1P Less Shield for non-corrosive liquids Diameter = 1/8"	303 Stainless
W5	E-1S With Shield for non-corrosive liquids Diameter = 9/16"	Brass
W6	E-1S with Shield for non-corrosive liquids Diameter = 9/16"	303 Stainless

WS Connectors
6013 — C — XX

Brass	BR
303 SS	SS

6013 — XX

W7	13-064700 with SW Wire for corrosive liquids Diameter = 9/16" (Includes Suspension Wire Factory Attached - Specify Length)	316 Stainless
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XX

Type SW wire Length in Feet	
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Note: When Wire Suspension Electrodes are to be used with Type "E" Holders, wire connectors must also be ordered for each electrode (see 6013-C-XX)

Solid Rod Electrodes

6013 — XX

X

X

X

Rod Material	
BR	Brass
SS	316 Stainless

Rod Type	
A	Has 1/4 - 20 thread for use on Type E holders
6B	Has 6-32 tap for use on Type CE2 & CE3 holders
C	Rod machined for attaching to Type KF holders
D	Rod machined for attaching to Type FR holders

Rod Length	
Rod Length in Feet (Rods are furnished in 1 foot increments up to 10 feet)	

Note - Rods over 3 feet should be insulated.

Insulation Material	
X	Bare Rod
P	PVC Sheath Max. Temp. 190F
T	TFE Sheath Max. Temp. 550F

Note: Other Materials are available. Consult Factory