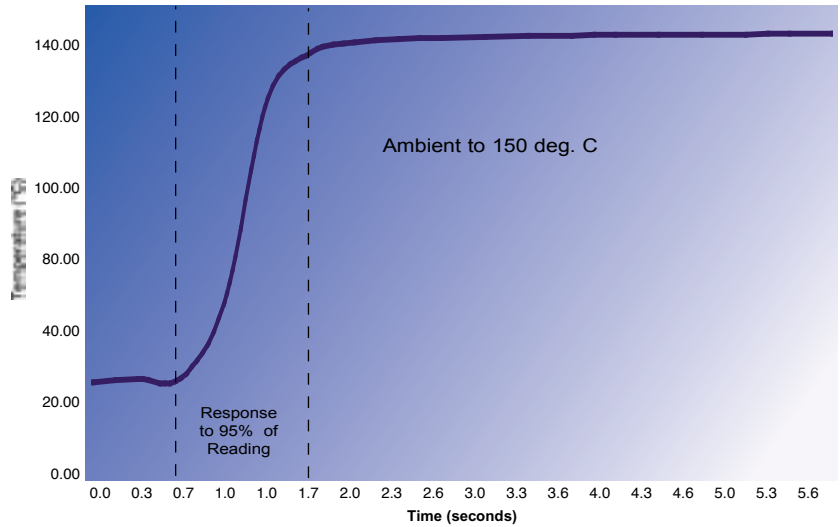


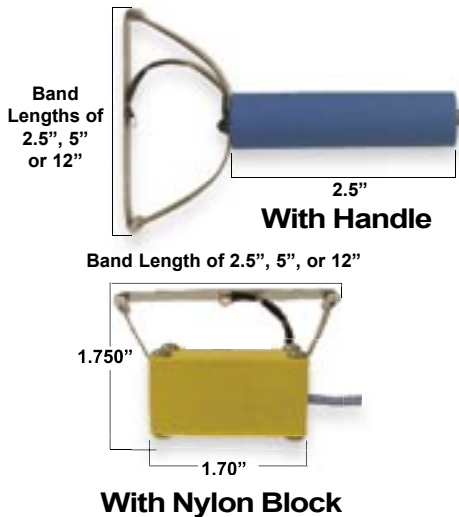
EDL Roller Contact Sensors

EDL has found a unique solution to make Roller Contact Sensors more accurate and increase the sensors life span. This gives you better reliability in temperature measurement. The Roller Contact consists of the Base, Bow Springs, Stainless Steel Contact Band and Thermocouple Wire .

Response Times of EDL Roller Sensors



Roller Contact Sensors (Non Replaceable Bands)



- Design of Roller Contact provides speed and accuracy when measuring cylindrical surfaces
- Protected thermocouple enables use on drums, rollers, pipes, hoses, tanks, tubes, etc.
- Surface speeds up to 600 ft./minute
- Glass filled nylon block withstands temperatures up to 200°C (375°F)
- Please request information for permanent installations
- (E & R series. Refer to page 14)
- Bands are not replaceable

Specifications

Band .375" wide, 0.005" thick, hard stainless steel; lengths of 2.5", 5", 12"
 Handle1.7" long glass filled nylon block or 2.5" long x 0.625" diameter aluminum
 Lead....32" long thermocouple grade stranded #20 wire. Teflon insulated & twisted w/ stainless steel overbraid.
 Accuracy.....±3° or 1%, whichever is greater
 Response time<2.5 sec. to 95% of reading

for use with Stationary Objects
Band Size
 2-1/2"1/2" to 15" dia.
 5"3' max. dia.
 12"10' max. dia.

for use with Moving Objects
Band Size
 2-1/2"Approx. 1/2" to 8" dia.
 5"Approx. 1-1/2' max. dia.
 12"Approx. 5' max. dia.

Model	Temperature	T/C	Length	Price	Terminations
RC2.5 -Roller Contact w/2.5" Band and Block	08 =425°C (800°F)	E, J, K or T	2.5"	\$86.00	M =Miniplug (Digital) P =Phonoplug (Analog) C =Coilcord w/Miniplug L =Standard Plug U =Unterminated A =Spade Lugs (Analog)
RCH2.5 -Roller Contact w/2.5" Band and Handle	12 =650°C (1200°F)	Max. Temp. for T is 400°C			
RC5 -Roller Contact w/5" Band and Block			5"	\$92.00	
RCH5 -Roller Contact w/5" Band and Handle					
RC12 -Roller Contact w/12" Band and Block			12"	\$103.00	
RCH12 -Roller Contact w/12" Band and Handle					

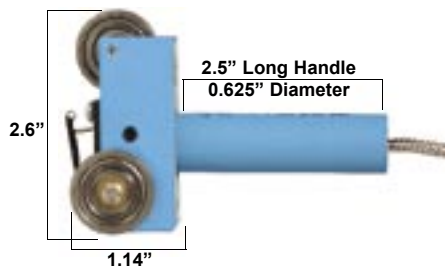
Roller Contact Sensors

Roller Contact Application Guide

Electronic Development Labs, Inc. takes pride in our ability to produce affordable sensors and equipment to meet your specific temperature measurement needs. Please refer to the Sensor Application guide or call our helpful sales department at 1-800-DIAL-EDL (1-800-342-5335)

Model	Flat Surface	Rough Surface	Curved Surface	Moving Surface	Rugged	Limited Space	Immersible
Roller Contact RC			✓	✓			
Roller Leaf RL	✓			✓			
Roller Band RB			✓	✓	✓		
Flex Band RFC			✓	✓		✓	
Rolling Roller RWR			✓	✓	✓		
Mini-Roller RMR			✓	✓		✓	
Weld Washer WW	✓	✓			✓	✓	✓

Roller Leaf Sensors



- The sensing leaf exerts minimal pressure against the object under test
- Fast moving flat items can be measured accurately without a large friction influence or damage to the surface
- The three wheel configuration gives you more control and smoother tracking on fast moving surfaces
- 1 sensing leaf is included

Specifications

Leaf 0.005" thick x 0.375" wide
 Handle 2.5" long x 0.625" diameter
 Lead.....32" long thermocouple grade stranded #20 wire. Teflon insulated & twisted w/ stainless steel overbraid.
 Accuracy..... ±3° or 1%, whichever is greater
 Response time <3 sec. to 95% of reading

Model	Temperature	T/C	Terminations	Price
RL- Roller Leaf	06 =315°C (600°F)	E, J, K or T	M =Miniplug (Digital) P =Phonoplug (Analog) C =Coilcord w/ Miniplug L =Standard Plug U =Unterminated	\$172.00 " " " "
Leaf Only RLR- Replacement Leaf (the sensing element)		E, J, K, or T	Leaf Only	\$53.00

Roller Leaf Sensors come with a removable 3" plastic extension handle

Rolling Roller Sensors



- Engineered for use on round, rotating or stationary surfaces.
- Assures long life and constant temperature measurements with excellent repeatability.
- Available with nylon block or handle.
- Ordering kapton covering on the band offers extra protection in measuring delicate surfaces.

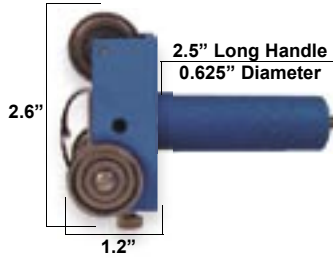
Specifications

Band 1.625" long x 0.375" wide x 0.005" thick
 Handle 1.625" long nylon block
 or 2.5" long x 0.625" diameter aluminum
 Lead...32" long thermocouple grade stranded #20 wire. Teflon insulated & twisted w/ stainless steel overbraid.
 Accuracy..... ±3°C or 1%, whichever is greater
 Response time <5 sec. to 95% of reading

Model	Temperature	T/C	Price	Terminations
RRB- Rolling Roller Block No Handle	06 =320°C (600°F)	E, J, K or T	\$162.00	M =Miniplug (Digital) P =Phonoplug (Analog) C =Coilcord w/ Miniplug L =Standard Plug U =Unterminated
RRH- Rolling Roller w/ 2 1/2" Handle			\$172.00	
Kapton Covering For Any Band.			+\$8.50	Add K after above codes

Roller Contact Sensors

Roller Band Sensor with Wheels



- Designed for flat moving surfaces (up to 1200 ft. per minute)
- Three wheels allow more control and smoother tracking on high speed surfaces assuring proper contact
- Bearings are resistant to high temperature
- 1 band included

Specifications

Band 0.005" thick x 0.375" wide
 Handle 2.5" long x 0.625" diameter
 Lead 32" long thermocouple grade stranded #20 wire. Teflon insulated & twisted w/ stainless steel overbraid
 Accuracy $\pm 3^\circ$ or 1%, whichever is greater
 Response time <2 sec. to 95% of reading

Model	Temperature	T/C	Terminations	Price
RB- Roller Band w/Wheels	06 =315°C (600°F)	E, J, K or T	M =Miniplug (Digital) P =Phonoplug (Analog) C =Coilcord w/ Miniplug L =Standard Plug w/32" Lead U =Unterminated E =Miniplug (No Lead) R =Must use HDRT lead	\$180.00 " " " " \$159.00 "
RB- Roller Band	12 =650°C (1200°F)	K	M =Miniplug (Digital)	\$212.50
Replacement Bands RBR-	06 =315°C (600°F)	E, J, K or T		\$50.00
RBR-	12 =650°C (1200°F)	K		\$60.00

Mini-Roller Contact Surface Sensors



- Allows even, constant pressure and reduces friction when pressed against stationary or rotating cylinders
- Replaceable Teflon guides protect band from abuse and distortion
- Available with Kapton covering on the band to avoid marring delicate surfaces
- For diameters under 1"

Specifications

Band 0.005" thick x 0.24" wide x 1.125" long
 Handle 6.0" long x 0.375" diameter anodized aluminum
 Lead 32" long thermocouple grade stranded #20 wire. Teflon insulated & twisted w/ stainless steel overbraid
 Accuracy $\pm 3^\circ$ or 1%, whichever is greater
 Response time <3 sec. to 95% of reading

Model	Temperature	T/C	Terminations	Price
RMR- MiniRoller	05 =260°C (500°F)	E, J, K or T	M =Miniplug (Digital) P =Phonoplug (Analog) C =Coilcord w/Miniplug L =Standard Plug U =Unterminated Add K after above codes	\$113.00 " " " " +\$8.50
Kapton Covering For Any Band.				

ATTENTION END-USERS!
 SURFACE SENSOR ENGINEERING APPLICATION NOTES ARE ONLINE

Please visit:
www.edl-inc.com/Engineering%20data/application%20notes.htm

If you have problems downloading the .pdf file, please email a request to sales@edl-inc.com or call 1-800-DIAL-EDL to request a hard copy of the application notes.

Roller Contact Sensors (With Replaceable Bands)

Roller Contact Holders



- Allows one holder to be used for different band sizes
- Holder must be same thermocouple type as the band being installed or replaced
- Bands are easily installed
- Will accept 2.5", 5" or 12" bands
- Available with block or handle

Specifications

Band0.005" Thick full hard Stainless Steel
 Handle Nylon block 1.7"L or 2.5" Aluminum
 Lead.....32" long thermocouple grade stranded #20 wire. Teflon insulated & twisted w/ stainless steel overbraid.
 Accuracy..... ±3°C or 1% whichever is greater
 Response time <2.5 sec. to 95% of reading

Nylon Block w/ Handle Nylon Block Replaceable Bands



2.5"



5"

Band Size	for use with Stationary Objects
2-1/2"	1/2" to 15" dia.
5"	3' max. dia.
12"	10' max. dia.

Band Size	for use with Moving Objects
2-1/2"	Approx. 1/2" to 8" dia.
5"	Approx. 1-1/2' max. dia.
12"	Approx. 5' max. dia.



12"

Model	Temperature	T/C	Terminations	Price
Band Type and Size				
RAB- Holder only w/nylon block	Band selected governs temperature	E, J, K or T	M =Miniplug (Digital) P =Phonoplug (Analog) C =Coilcord w/Miniplug	\$70.00 " "
RAH- Holder only w/2.5" handle				
R2.5- Band 2.5"	08 =425°C (800°F)	E, J, K or T	Bands fit into any holder listed above	\$53.00
R5- Band 5"			T/C type must be same on band and holder	\$70.00
R12- Band 12"	More durable			\$70.00
R2.5- Band 2.5"	12 =650°C (1200°F)	E, J or K	Bands fit into any holder listed above	\$64.00
R5- Band 5"			T/C type must be same	\$70.00
R12- Band 12"				\$81.00

Roller Contact Bands and Holders for E and R Series (See Holders on page 4)

R Series Sensors

The R Series allows various sized bands of the same thermocouple type to be used with one holder. Use with HDRT Holders only. For use with analog and digital instruments

E Series Sensors

The E Series plugs directly into instrument and allows the use of any size band of the same T/C with one holder. When a lead is required, use a HBET Holder. For use with digital instruments only.

For HDRT Holders

Band Type and Size	Temperature	T/C	Termination	Price
RCR2.5- 2.5" Band	08 =425°C (800°F)	E, J, K or T	R = must use HDRT Holder	\$65.00
RCR5- 5" Band	or		See Page 4	\$70.00
RCR12- 12" Band	12 =815°C (1200°F)			\$81.00

Allows various size bands of the same thermocouple type to be used with one holder. For use with both analog and digital instruments.

Any size band of the same thermocouple type may be used with one holder for digital instruments only.

For HBET Holders

Band Type and Size	Temperature	T/C	Termination	Price
RCE2.5- 2.5" Band	08 =425°C (800°F)	E, J, K or T	E = must use HBET Holder	\$65.00
RCE5- 5" Band	or		See Page 4	\$70.00
RCE12- 12" Band	12 =815°C (1200°F)			\$81.00