BEYOND RELIABILITY

111(0)

RAYA ENERGY ENGINEERING AND INSTRUMENTATION



About US

REEICO has been known as a highly reliable High-Tech instrumentation manufacturing company in the MENA region by Oil and Gas experts.

REEICO started by manufacturing upstream products and services like MWD/LWD (Measurement While Drilling and Logging While Drilling) tools and Directional Drilling full package services, but now we have achieved delivering numerous mid-downstream instrumentations and sensors like a wide variety of Turbine-Compressor vibration monitoring sensors in world-class quality and standards.

We deliver reliability and confidence to our customers in both upstream and downstream industries. Sure we are not the first, but our goal is to keep continuity on the way to become the best in terms of reliability.

Standards:

- ISO 9001:2015
- ISO 14001:2015
- ISO/TS 29001:2010
- ISO 45001:2018
- Ex ia IIC T4/T5 Ga

















Our recent costumers



Conditioner

The REEICO conditioner contains a high frequency modulator / demodulator that supplies a driving signal to the transducer. This generates the necessary electromagnetic field used to measure the gap. The conditioner circuitry is made of high-quality components and also available in Exapproved version for use in hazardous location.

The type of protection is: II 1G, Ex ia IIC T1/T2/T3/T4/T5 Ga

Extension cable

The REEICO transducers can be matched with a single extension cable to effectively lengthen the front-end. Optional housings, junction boxes and interconnection protectors are available for the mechanical and environmental protection of the connection between the integral and extension cables.

Sensors

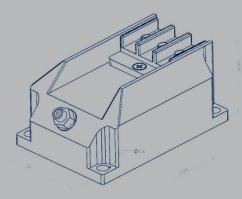
The REEICO probes detect the motion and vibration of industrial machinery. High-performance proximity sensors based on eddy currents deliver vital information of the displacements from critical elements. The Proximity Trans ducer System provides an output voltage that is directly proportional to the distance between the probe tip and the observed conductive surface.



Conditioner

Part number series

VB□-C0-T□□-A□-B□□-H□□-I□



VB:PRODUCT

1	В
2	M
3	K
4	S
5	С
6	R

T:CONDITIONER TYPE

	١	/B1	l		VB	2
NO	-		FIG NO	NO	ı	FIG NO
	(FIG05		0	FIG01
01	1		FIG06	01	1	FIG02
	2	2	FIG07		0	FIG03
02	(FIG08	02	1	FIG04
<u> </u>	_ 1		FIG09		VB:	
03	()	FIG10	NO		
03	1		FIG11	NO	1	FIG NO
04	2	<u> </u>	FIG19	01	1	FIG14
05	2		FIG12		VB	4
06	2		FIG20	NO	ı	FIG NO
07	2	2	FIG21		1	FIG15
08	2	2	FIG22	01	2	FIG16
09	2	2	FIG23	ľ	3	FIG17
10	2	2	FIG13		4	FIG18
			٧	'B5		
NO			T .	FIG NO		Ю
04			0		FIG2	4
01			1		FIG2	5

B:SENSITIVITY

Measuring range		NO	Measuring range		NO
8 mV/μm(200mV/μm)		01	4 mV/μm(100mV/μm)		03
2mm	2.5 μA/μm	02	4mm	1.25 μA/μm	04

A:ENVIROMENT STANDARD

NO	VB1	NO	VB2
0	Not required	1	Standard
1	CSA,ATEX,IECEx Ap-	2	Explosive Exi
'	provals	3	Explosive Exi nA
2	Agency Approval Option	NO	VB5
3	Multiple Approval	0	Not required
NO	VB3	1	Standard
0	No special requirements	2	Ex II 1G, Ex ia IICT6/ T5Ga(ATEX)
1	special requirements	3	Ex ia IICT6/ T5Ga(IECEx)

H:TOTAL SYSTEM LENGTH

NO	VB1	NO	VB3	NO	VB5
01	1m	04	4m	01	1m
05	5m	05	5m	03	3m
07	7m	09	9m	05	5m
					_
09	9m	NO	VB2	07	7m
NO NO	9m VB4	NO 01	VB2	07 09	7m 9m
				09	9m
NO	VB4	01	1m		

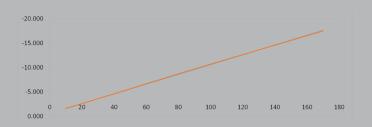
I:INSTALLATION

NO	VB1
0	Panel mount
1	DIN mount
2	No mounting hardware
NO	VB2
0	Signal conditioner only
1	Signal conditioner assembled on MA 130 mounting adaptor
NO	VB3
1	Mounting hardware
NO	Mounting hardware
	, and the second
NO	VB4
NO 1	VB4 3DIN Rail(35 mm)Mount
NO 1 2	VB4 3DIN Rail(35 mm)Mount Screw Mounts(50.8×50.8 mm) Screw Mounts(92×31 mm: For
NO 1 2 3	VB4 3DIN Rail(35 mm)Mount Screw Mounts(50.8×50.8 mm) Screw Mounts(92×31 mm: For VK Replacement) Screw Mounts Multipitch(50.8×50.8 mm and 92×31
NO 1 2 3	VB4 3DIN Rail(35 mm)Mount Screw Mounts(50.8×50.8 mm) Screw Mounts(92×31 mm: For VK Replacement) Screw Mounts Multipitch(50.8×50.8 mm and 92×31 mm)

Graphs

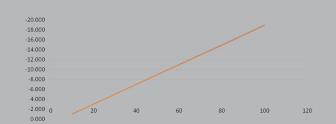
Signal Conditioner Output

Voltage (V)



Signal Conditioner Output

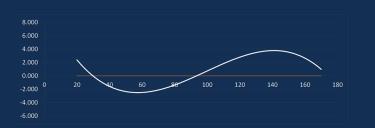
Voltage (V)



Typical Sensitivity Error

(Percentage)

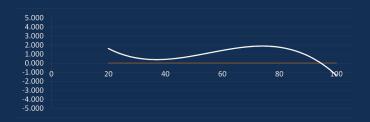
Referenced to 100 mV/mils



Typical Sensitivity Error

(Percentage)

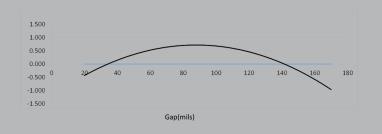
Referenced to 200 mV/mils



Typical Gap Error

(Miles)

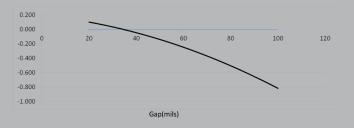
Referenced to 100 mV/mils



Typical Gap Error

(Miles)

Referenced to 200 mV/mils



Extension cable

Part number series

VB□-B0-T□□-A□-E□□□-F□□-G□□□

VB:PRODUCT

NO	Туре
1	В
2	М
3	К
4	s
5	С
6	R

T:EXTENSION CABLE TYPE

NO	VB1	NO	VB2
03	FIG3	01	FIG1
04	FIG4	02	FIG2
05	FIG5	NO	VB3
06	FIG6	08	FIG8
07	FIG7	09	FIG9
NO	VB4	10	FIG10
14	FIG14	11	FIG11
NO	VB5	12	FIG12
15	FIG15	13	FIG13

E:EXTENSION CABLE LENGTH

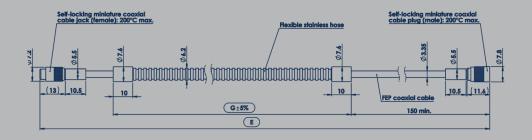
NO	Length		
005	0.5m		
010	1.0m		
035	3.5m		
090	9.0m		
095	9.5m		
Lenç	Length Tolerance=E±10%		
IN	INCREMENT IN 0.1 m		
Cable specification according to sensor type			

G:FLEXIBLE HOSE LENGTH

NO	Length	
000	None	
001	0.1m	
098	9.8m	
INCREMENT IN 0.1 m		

A:ENVIROMENT STANDARD

NO	VB1	NO	VB2
0	Not required	1	Standard
1	CSA,ATEX,IECEx Approvals	2	Explosive Exi
2	Agency Approval Option	3	Explosive Exi nA
3	Multiple Approval	NO	VB5
NO	VB3	0	Not required
110	V 20	1	Standard
0	No special requirements	2	Ex II 1G, Ex ia IICT6/ T5Ga(ATEX)
1	special requirements	3	Ex ia IICT6/ T5Ga(IECEx)



Extension cable

F:OPTIONAL PROTECTION

T:SENSOR TYPE	NO	VB1
	00	Standard cable
	01	Armored cable
	02	Standard cable with connector protector
(03/04)	03	Armored cable with connector protector
(03/04)	10	FluidLoc cable
	11	Armored FluidLoc cable
	12	FluidLoc cable with connector protector
	13	Armored FluidLoc cable with connector protector
	00	Without stainless steel armor
	01	With stainless steel armor, with FEP jacket
	02	With stainless steel armor, without FEP jacket
	03	Without stainless steel armor, with connector protector
	04	With stainless steel armor, with FEP jacket, with connector protector
	05	With stainless steel armor, without FEP jacket, with connector protector
(05)	06	FluidLoc cable Without stainless steel armor
	07	FluidLoc cable Without stainless steel armor, with FEP jacket
	08	FluidLoc cable With stainless steel armor, with FEP jacket
	09	FluidLoc cable Without stainless steel armor, with connector protector
	10	FluidLoc cable With stainless steel armor, with FEP jacket, with connector protector
	11	FluidLoc cable With stainless steel armor, without FEP jacket, with connector protector
(06/07)	00	Without armor
(06/07)	01	With armor

VB2			
T:SENSOR TYPE	NO Cable Conne		
	00	None	None
	01	Flexible hose	None
(04)	02	Flexible hose with sleeve	None
(01)	05	None	IP 172
	06	Flexible hose	IP 172
	07	Flexible hose with sleeve	IP 172
	00	None	None
	01	Flexible hose	None
(02)	02	Flexible hose with FEP sheeth	None
	05	None	IP 172
	06	Flexible hose	IP 172
	07	Flexible hose with FEP sheeth	IP 172

NO	VB3
00	No cable protection
01	Steel protective conduit
02	PTFE protective conduit
03	Corrugated tube, version A
04	Corrugated tube, version B
05	St.steel corrugated tube,L3=700mm

NO	VB4	
00	Without armor	
01	With armor (Without fluoro resin coating)	
02	With armor (With fluoro resin coating)	
NO	VDS	
NO	VB5	
00	Not armoured	
01	armoured	

Sensors

Part number series

VB□ -A0-T□□ -A□ -B□□ -C□□□ -E□□□ -F□□ -G□□□ -H□□

VB:PRODUCT

NO	Туре
1	В
2	М
3	К
4	s
5	С
6	R

A:ENVIROMENT STANDARD

NO	VB1	NO	VB2
0	Not required	1	Standard
1	CSA,ATEX,IECEx Approvals	2	Explosive Exi
2	2 Agency Approval Option		Explosive Exi nA
3	Multiple Approval	NO	VB5
		0	Not required
NO	VB3	1	Standard
0	No special requirements	2	Ex II 1G, Ex ia IICT6/ T5Ga(ATEX)
1	special requirements	3	Ex ia IICT6/ T5Ga(IECEx)

C:BODY LENGTH/OVERAL CASE LENGTH

NO	Length		
020	20mm		
054	54mm		
250	50 250mm		
INCREMENT IN 1 mm			
*For 86691 , 168209C=			

D:UNTHREADED LENGTH

NO	Length
000	0mm
250	250mm
	INCREMENT IN 1 mm

G:FLEXIBLE HOSE LENGTH

NO	Length	
000	None	
001	0.1m	
098	9.8m	
INCREMENT IN 0.1 m		

H:TOTAL SYSTEM LENGTH

NO	Length
01	1m
05	5m
10	10m

T:SENSOR TYPE

NO	VB1	NO	VB3
04	FIG4	14	FIG14
05	FIG5	15	FIG15
06	FIG6	16	FIG16
07	FIG7	17	FIG17
08	FIG8	23	FIG23
09	FIG9	24	FIG24
10	FIG10	25	FIG25
11	FIG11	26	FIG26
12	FIG12	27	FIG27
13	FIG13	28	FIG28
18	FIG18	29	FIG29
19	FIG19	30	FIG30
20	FIG20	31	FIG31
21	FIG21	32	FIG32
22	FIG22	33	FIG33
NO	VB2	34	FIG34
01	FIG1	35	FIG35
02	FIG2	36	FIG36
03	FIG3	37	FIG37
NO	VB4	38	FIG38
44	FIG44	39	FIG39
45	FIG45	40	FIG40
46	FIG46	41	FIG41
NO	VB5	42	FIG42
47	FIG47	43	FIG43

B:BODY THREAD

00	None
01	M10x1
02	M16x1
03	M14x1.5
04	M16x1.5
05	M6x0.75
06	M8x1
07	M20x1.5
08	M30x1.5
09	3/8"-16UNC
10	3/8"-24UNF
11	1/2"-20UNF
12	1/4"-28UNF
13	5/8"-16UNF
14	5/8"-18UNF

E:INTEGRAL CABLE LENGTH

NO	Length
005	0.5m
010	1.0m
015	1.5m
090	9.0m
100	10m
Length Tolerance=E±10%	
INCREMENT IN 0.1 m	

Sensors

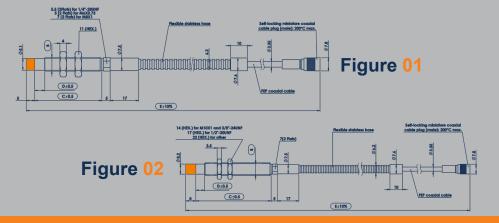
F:OPTIONAL PROTECTOR

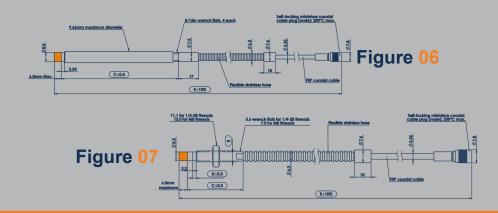
VB1					
Cable	Connector				
With Armor	Miniature coaxial ClickLoc connector with connector protector ,standard cable				
	Miniature coaxial ClickLoc connector, standard cable				
	Miniature coaxial ClickLoc connector with connector protector ,FluidLoc cable				
	Miniature coaxial ClickLoc connector, FluidLoc cable				
	Without connector				
	With moniature male coaxial connector				
Without Armor	Miniature coaxial ClickLoc connector with connector protector ,standard cable				
	Miniature coaxial ClickLoc connector, standard cable				
	Miniature ClickLoc coaxial connector				
	Miniature coaxial ClickLoc connector with connector protector, FluidLoc cable				
	Miniature coaxial ClickLoc connector, FluidLoc cable				
	Without connector				
	With miniature male coaxial connector	06			

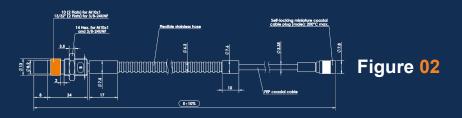
NO	VB3	NO	VB4	
00	No cable protection	00	Without Armor	
01	Steel protective conduit	01	With armor(Without fluoro resin coating)	
02	PTFE protective conduit	02	With armor(With fluoro resin coating)	
03	Corrugated tube, version A	NO	VB5	
04	Corrugated tube, version B	00	Not armoured	
05	St.steel corrugated tube, L3=700mm	01	armoured	

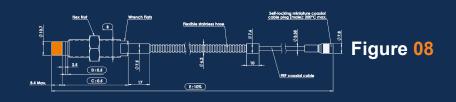
VB2					
T:SENSR TYPE	NO	Cable	Connector		
	00	None	None		
	01	Flexible hose	None		
	02	Flexible hose with sleeve	None		
	03	Movable flexible hose	None		
(04)	04	Movable flexible hose with sleeve	None		
(01)	05	None	IP 172		
	06	Flexible hose	IP 172		
	07	Flexible hose with sleeve	IP 172		
	08	Movable flexible hose	IP 172		
	09	Movable flexible hose with sleeve	IP 172		
	00	None	None		
	01	Flexible hose	None		
	02	Flexible hose with FEP sheath	None		
	03	Movable flexible hose	None		
(02/02)	04	Movable hose with FEP sheath	None		
(02/03)	05	None	IP 172		
	06	Flexible hose	IP 172		
	07	Flexible hose with FEP sheath	IP 172		
	08	Movable flexible hose	IP 172		
	09	Movable hose with FEP sheath	IP 172		

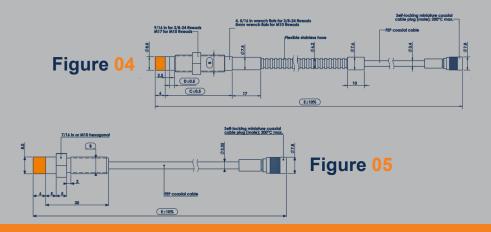
SensorTypes

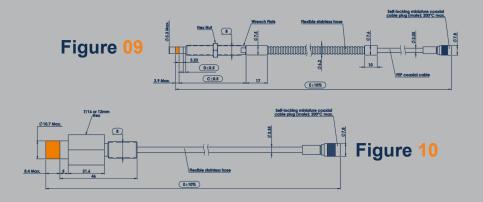












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C O M P A N Y