



PHOENIX

IR3S-A, IR3S-R, IR3S-D, IR3S-AD

ISO 9001:2000



: MAN-0044-00 .10
2007 .

«Net Safety Monitoring Inc.»

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.....	1	3: (2).....	8
.....	1	8
.....	1	9:	8
1: ((FM) (NFPA))	1	4:	8
.....	2	5:	8
.....	2	6:	8
.....	2	MODBUS RTU (IR3S-D AD)	9
1:	3	Phoenix	9
2:	3	7: Phoenix Modbus	9
.....	4	8: Modbus	9
.....	4	9: Modbus RTU (.....	9
.....	4	1, 4)	9
.....	4	10: Phoenix Modbus	10
.....	4	.....	10
.....	4	/ Modbus	10
.....	4	.....	10
.....	4	11:	10
.....	4	.....	11
AD) (IR3S -A IR3S-	4	.....	11
3:	4	10:	11
/	4	.....	11
4: — IR3S-A ()	5	11:	11
5: — IR3S-AD (-)	5	.....	11
6: — IR3S-R ()	6	12: RTU (40001),	12
7: — IR3S-D ()	6	()	12
.....	7	.....	12
.....	7	(VI)	12
.....	7	.....	12
8:	7	.....	12
.....	7	.....	12
.....	7	13:	13
2:	7	.....	14
(1)	7	A: ,	14
(IR3S -R)	8	(ESD)	14
.....	8	B: ()	15

C: 16

Phoenix

Net Safety,

Phoenix

Phoenix

Phoenix

Phoenix

1:

-	1' x 1'	190
	1' x 1'	130
	1' x 1'	150

((NFP A) (FM) Phoenix :

50% Phoenix - 120 (1)

70 (-) Net Safety Monitoring.

10-20°

.7). (« »

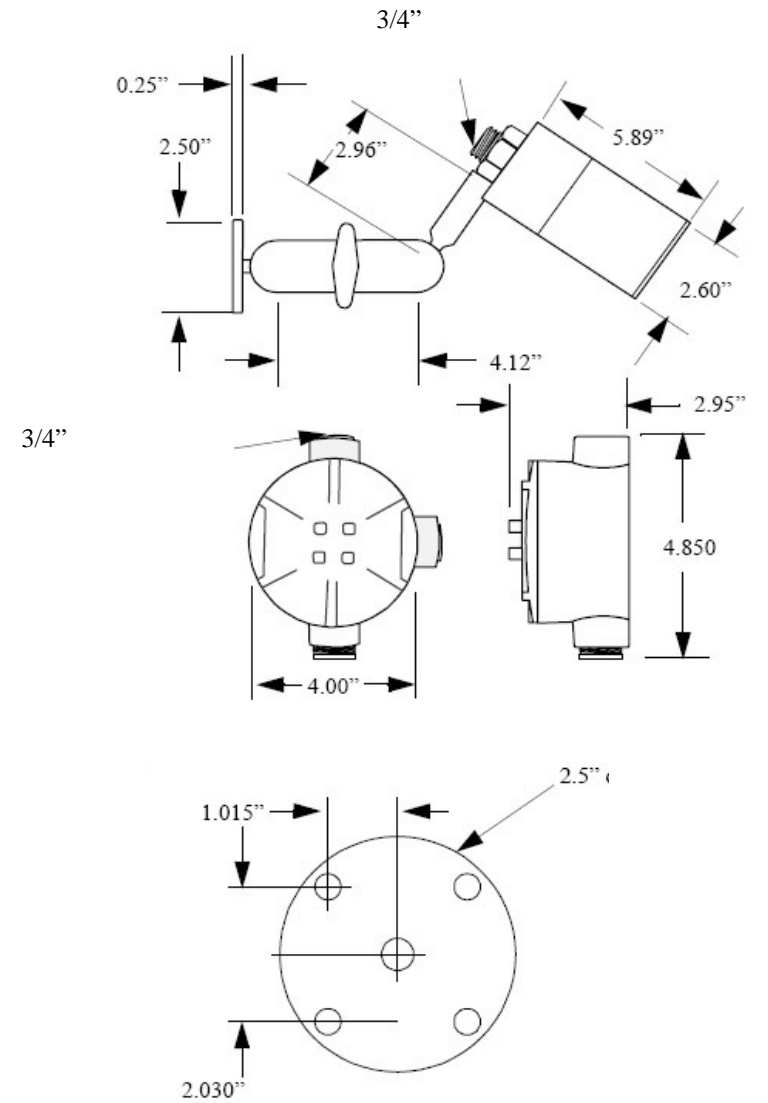
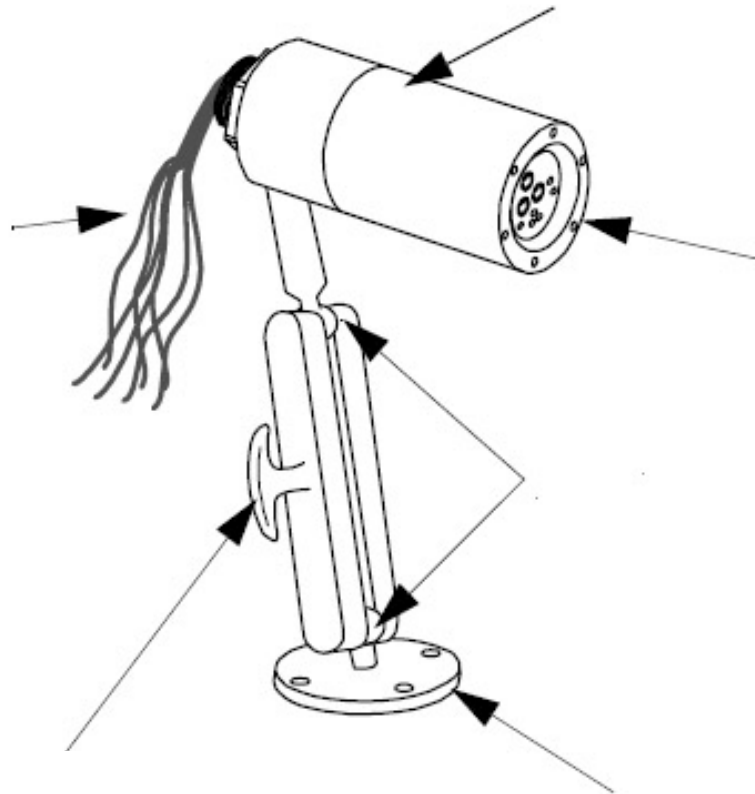
» .7). («

(,)

2:

Monitoring.
1:

Net Safety





IR3S-A, 150 ; 16 AWG
IR3S -A 150 18 AWG, 300 , 2 000

« () » .15.

18 (46)

Phoenix

Net Safety (



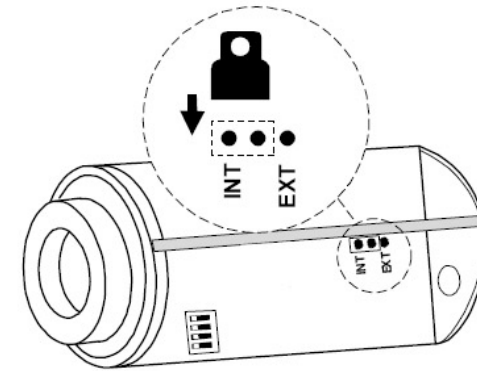
IR3S-AD)

IR3S -A

EXT

INT.

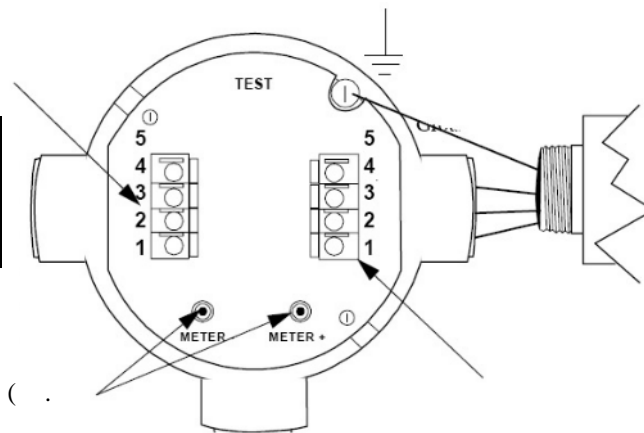
3:



INT,

4: — IR3S-A ()

4 (ISO)		(ISO)
3 (+24V)	, +24	
2 (COM)		(-)
1 (4-20)		, 4-20

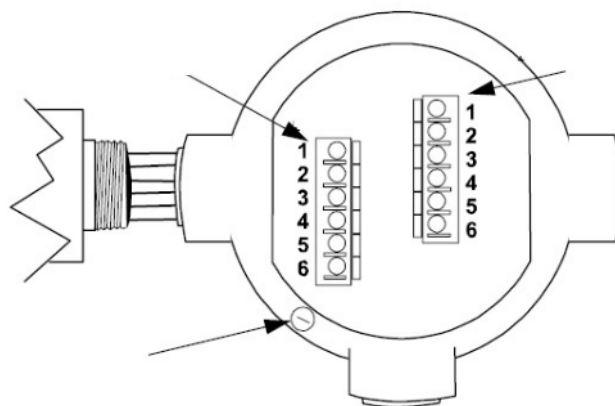


4		+ (ISO)
3		(-)
2	10,5-32	(+)
1		, 4-20

10)

5: — IR3S-AD (-)

1		10,5-32	(+)
2			(-)
3	A		
4	B		
5		, 4-20	
6		+	(ISO)



1		(+)
2		(-)
3	A	
4	B	
5		, 4-20
6		(ISO)

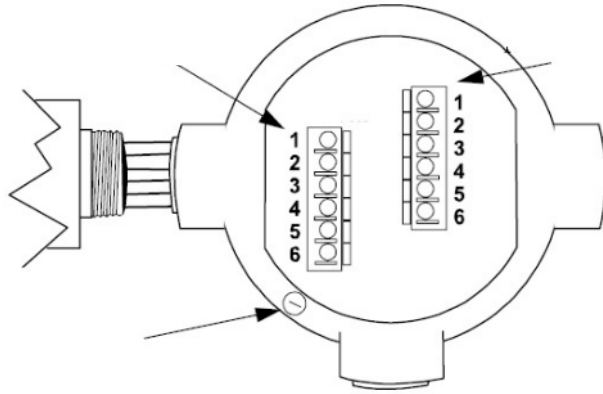
: 254 - , A B (3 4)



(ISO) (« (IR3S -A IR3S-AD)» .4.

6: — IR3S-R ()

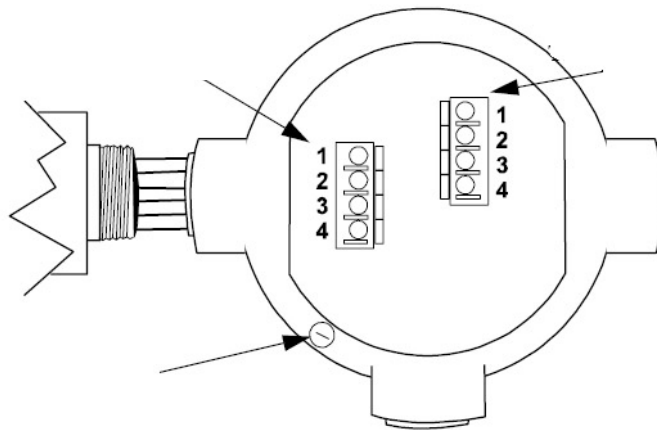
1		10,5-32	(+)
2			(-)
3			
4			
5			
6			



1		(+)
2		(-)
3		
4		
5		
6		

7: — IR3S-D ()

1			(+)
2			(-)
3		A	
4		B	



1		(+)
2		(-)
3	A	
4	B	

: 254 , A B (3 4)



(. A « (ESD)» . 14).

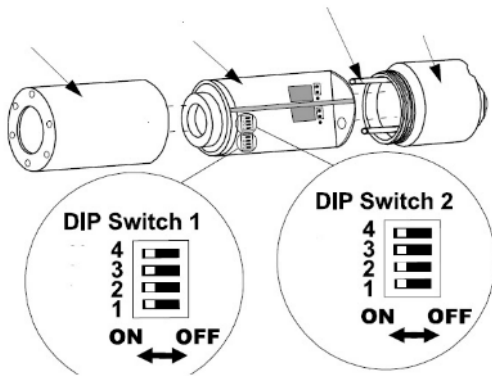
Phoenix.
8). ON (.) OFF (.) (

Phoenix (.) .

1
2
3,4 9, 2,

8:

Phoenix



2:

		1)	
		1	2
0		ON (.)	ON (.)
3	()	ON (.)	OFF (.)
5		OFF (.)	ON (.)
7		OFF (.)	OFF (.)

3	
ON (.)	()
OFF (.)	

2
1 2.
1 ; 1,2 3
4

(IR3S -R)

(OFF (.)) ON (.))
 8 « 2, » .7). 2 (.

3: (2)

2			
2	OFF (.)		
	ON (.)	()	

5:

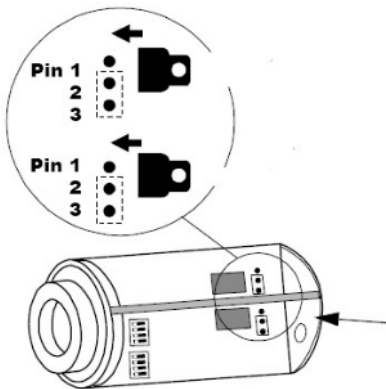
			()
/NO /NC /NO /NC			

6:

			()
/NO /NC			

(- ,) .
 (. 9 / 4).

9:



4:

1 2	(NC)
2 3	(NO)
	()


MODBUS RTU (IR3S-D AD)

Phoenix

Modbus RTU

- Net Safety: www.net-safety.com/technical_support.html.

1. Phoenix PC Set Up (Phoenix)
2. Phoenix PC Set Up dotnetfx.exe (Windows).
3. Phoenix Setup.exe,

Phoenix. :  Modbus
 (12 24 RS-232 RS-485.)
 Modbus.

7: Modbus

A	
B	
Gnd	
A+	

: - (AD)

8:

	4 800 /
	9 600 /
	14,4 /
	19,2 / ()
	28,8 /
	38,4 /
	57,6 /

Modbus

Phoenix

Phoenix;

Modbus Phoenix 1
 4 9 « Modbus RTU (4)» .9,
 1, 4)» .9,
).

9: Modbus RTU (1, 4)

	Modbus RTU	
1	ON (.)	
4	OFF(.)	(1)

: (1, RTU 4),

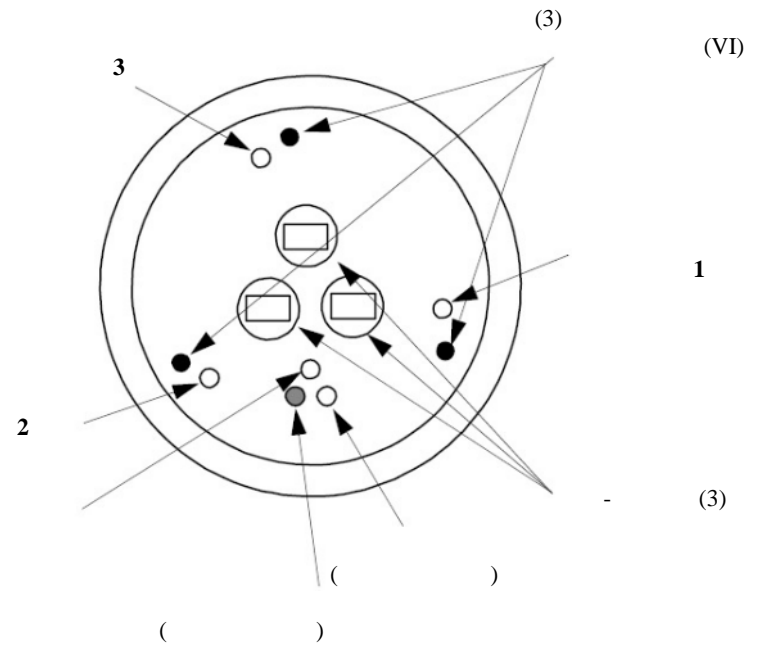
1. OFF (.). 1, 4,
2. Phoenix, RS -232 RS-485.
3. Phoenix Modbus.
4. Port () Baud Rate ()
5. Connect () («Connected» ().)
6. Get Current Settings () ()
7. Phoenix Modbus **OK.**
8. Phoenix (. 8 «
9. » .9). Phoenix.
10. Update () Phoenix. **OK.**
11. Phoenix Modbus ().
12. Phoenix Modbus ().
13. Phoenix Modbus ().
14. Phoenix Modbus (). 1, 4, ON
15. Phoenix Modbus ().

:



:

11:



Phoenix. Modbus

/

Modbus

Phoenix Modbus (Modbus , Connect ()),

1. OFF ().

2. 1, 4,

3.

4. - 1.

5. Modbus.

Phoenix
 30
 3,0
 4,0
 (11). 10)

10:

Phoenix.

VI - VI	0 2,0 3,0 4,0 16 20
---------	------------------------------------

11:

	1	2	3	()	()	()
->30-						
VI						
VI						
-						



12:	RTU (40001),	
RTUfire_power_up	0x0001	0000 0000 0000 0001 B
RTUfire_vi_fault	0x0002	0000 0000 0000 0010 B
RTUfire_normal	0x0004	0000 0000 0000 0100 B
RTUfire_fault	0x0008	0000 0000 0000 1000 B
RTUfire_warning	0x0040	0000 0001 0000 0010 B
RTUfire_alarm	0x0080	0000 0010 0000 0000B

13 « » . 13.

: VI

Phoenix

()

Phoenix

()

VI

Net Safety.



(VI)

3 Phoenix (VI)

3- VI

, Phoenix VI,

VI

13:

				1	2	3		
0	-	-	-	-	-	-		-
0		
1,0	.	.	.	-				() 10,5-32
1,5		
2		.	.				VI ()	() Net Safety Monitoring) (-) -
Phoenix Modbus								
Wr Failed ()							COM-	COM- (. « Modbus» .9)
							/	1, 4, OFF (.) (. Modbus» .9)
Failed ()							COM-	COM- (. « Modbus» .9 « / Modbus» .10)

A: , (ESD)

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1. Net Safety).

2.

3.

4.

5.

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Calgary, Alberta, Canada
T1Y 7J7

6.

1 4,

ESD.

	B:		()					
()	AWG 20	AWG 18	AWG 16	AWG 14	AWG 12	AWG 10	AWG 8	
100	1,02	0,40	0,25	0,16	0,10	0,06		
200	2,03	0,80	0,51	0,32	0,20	0,13		
300	3,05	1,20	0,76	0,48	0,30	0,19		
400	4,06	1,61	1,01	0,64	0,40	0,25		
500	5,08	2,01	1,26	0,79	0,50	0,31		
600	6,09	2,41	1,52	0,95	0,60	0,38		
700	7,11	2,81	1,77	1,11	0,70	0,44		
800	8,12	3,21	2,02	1,27	0,80	0,50		
900	9,14	3,61	2,27	1,43	0,90	0,57		
1 000	10,20	4,02	2,53	1,59	1,09	0,63		
1 250	12,70	5,03	3,16	1,99	1,25	0,79		
1 500	15,20	6,02	3,79	2,38	1,50	0,94		
1 750	17,80	7,03	4,42	2,78	1,75	1,10		
2 000	20,30	8,03	5,05	3,18	2,00	1,26		
2 250	22,80	9,03	5,68	3,57	2,25	1,41		
2 500	25,40	10,00	6,31	3,97	2,50	1,57		
3 000	30,50	12,00	7,58	4,76	3,00	1,88		
3 500	35,50	14,10	8,84	5,56	3,50	2,21		
4 000	40,60	16,10	10,00	6,35	4,00	2,51		
4 500	45,70	18,10	11,40	7,15	4,50	2,82		
5 000	50,10	20,10	12,60	7,94	5,00	3,14		
5 500	55,80	22,10	13,91	8,73	5,50	3,46		
6 000	61,00	24,10	15,20	9,53	6,00	3,77		
6 500	66,00	26,10	16,40	10,30	6,50	4,08		
7 000	71,10	28,10	17,70	11,10	7,00	4,40		
7 500	76,10	30,10	19,00	12,00	7,49	4,71		
8 000	81,20	32,10	20,20	12,70	7,99	5,03		
9 000	91,40	36,10	22,70	14,30	8,99	5,65		
10 000	102,00	40,20	25,30	15,90	9,99	6,28		
		63,90						

C:

Phoenix	IR3S-A ()	IR3S-R ()	IR3S-AD (-)
		10,5-32,0	
24 ()	30 /0,72 64 /1,44	- 39 /0,96 / 73 /1,68 - 51 /1,20 / 86 /2,16	30 /0,72 64 /1,44
12 ()	45 /0,60 113 /1,32	- 66 /0,84 / 138 /1,68 - 93 /1,08 / 165 /2,04	45 /0,60 113 /1,32
24 ()		750 2	
	-40°C +75°C (-40F 167F), 70 /120	/ -50°C +75°C (-58F 167F) 50%	
	IR3S		
		: 0, 3, 5, 7	
	(2)	(/)	
	(-)		
	0-95%		
()	2,1 /4,5 (-3,4 /7,5)		
	CSA NRTL/C (I, 1, Grp II B+H2 T5) : CSA T5. NEMA 4X. Ex d II B+H2 T5. CE Ex II 2 G, Ex d II B+H2 T5	I, I, B, C D. I, 1, A (-)) , B, C D.	T5. NEMA 4X. Ex d II B+H2 T5
	0-20 - 32 800 150	Factor y Mutual (FM). / 5 30 /125	0-20 - 32 800 150 10,5 RS-485 RTU Modbus

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