

इरिसेट

IRISET ब्लॉक सिगनलिंग प्रयोगशाला BLOCK SIGNALLING LABORATORY

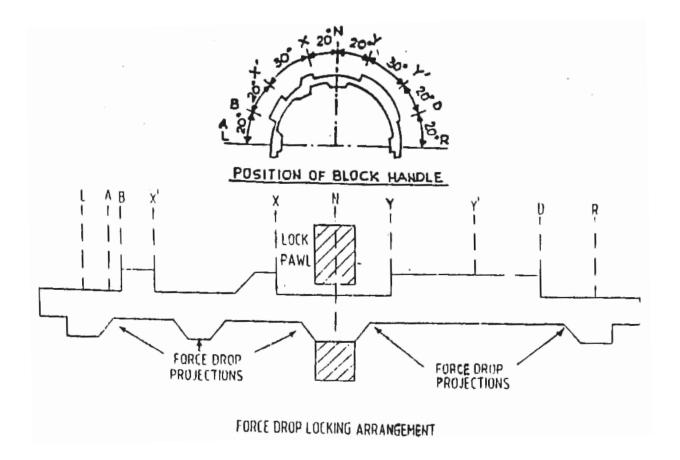
प्रयोग सं. बी एस एल - 08 EXPERIMENT NO.: BSL. - 08

नाम							
Name	:						
अनुक्रमांक				प्राप्तांक			
Roll No	:			Marks Awarded	:		
पाठ्यक्रम Course							
Course दिनांक	:			अनुदेशक के आदक्षर			
Date	:			Instructor's Initial	:		
			_	ency Modulated Tol tion numbers on the p		ss Single Li	ne Block
1. S1 and	d cou	nter			()	
2. Galvo					()	
3. Single	strok	e bell			()	
4. Maint	ainer	s key			()	
5. Buzzei	r win	low			()	
6. Time r	releas	e indicator			()	
7. Teleph	none				()	
8. SM's k	кеу				()	
9. Opera	ting I	landle			()	
10. Shunt	key				()	
11. TOL In	ndicat	or			()	
12. S2 and counter					()	
13. Push button PB1 & PB2					()	
14. Turn T	Гablе				()	

II. (a) Write in brief the function o	of the following internal pa	rts	
1. Condenser C2 across the Gal	vo		
2. Choke CH1			
3. Buzzer-1 it is a PCB unit, actu	uated by TOLR & gives TOL	ouzzer.	
4. Buzzer-2 it is a PCB unit, actu	uated by 2R & gives TAR bu	zzer.	
5. Speaker			
6. Lock magnet coil assembly			
7. Transmitter			
8. Level adjust switch: It is a th select the level of the signal out	•	tch, associated with the Tran	nsmitter. This car
9. Receiver			
10. Attenuator: This switch can (Digital Communication & Co	·	·	ved Signal. In DC
11. Impedance switch			
12. Diodes connected in series v	with relays NR (D1 BY-126)	& BLR (D2 BY-126)	
13. Resistance connected across	s Block handle contacts in N	IR circuit R3 470 Ohm/2w	
14. TOL Indicator			
(b) Study the Block handle lock	magnet and contact assen	bly and note the following	
1. Number of contacts	working:	Spare:	
2. How various contacts are obt	ained?		
3. How the contacts are identifi	ed in the wiring diagram		
(c) Study the Terminal Block a	nd mention how the termi	nals are identified in the wiri	ng diagram:
1) Identified as			
2) Location			

3) Number of terminals

Mark the various locking & contact position and indicate the force-dropping bracket shown in the sketch below, also state the reason for having check lock arrangement while turning the handle to TGT



Keep the instruments at line closed and remove the SM's key at one end, and observe the							
	e following						
a) When PB1 is pressed whether bell beat is transmitted to Stn.B	Yes/No						
b) When PB1 & PB2 are pressed whether the code is transmitted to Stn.B	Yes/No						
c) Whether the operating handle is mechanically locked at Stn.A	Yes/No						
d) Whether it is possible to operate S1 & S2 Switch at Stn.A?	Yes/No						
e) Whether it is possible to extract the Shunt key at Stn.A?	Yes/No						
f) Whether incoming code is received? g) Whether the incoming bell beats are received?	Yes/No Yes/No						
h) Insert the SM's key and turn to ON position, extract the Shunt key and the SM's key, insert the shunt key into the instrument when SM's key is out?	is it possible to Yes/No						
Inference							
For all the above operations, SM's key is required to be in the instrument and turned to _	position.						
IV. Study of Shunting Key							
a) In Line closed condition try to extract the Shunt key at both ends							
At Stn.A Possible / No	t possible						
At Stn.B Possible / Not	possible						
b) Remove the Shunt Key at one end say at Stn.A and note whether the Block H							
·	/ not locked						
·	/ not locked						
mechanically locked							
mechanically locked c) Try to extract Shunt Key with instrument at Stn.A in TGT and at Stn.B in TCF position	possible						
mechanically locked c) Try to extract Shunt Key with instrument at Stn.A in TGT and at Stn.B in TCF position At Stn.A Possible / Not	possible						
mechanically locked c) Try to extract Shunt Key with instrument at Stn.A in TGT and at Stn.B in TCF position At Stn.A Possible / Not Possib	possible						
mechanically locked c) Try to extract Shunt Key with instrument at Stn.A in TGT and at Stn.B in TCF position At Stn.A Possible / Not At Stn.B Possible / Not Inference	possible						

III. Study of SM's key

Signature of Trainee