



HUMAN DISTANCE DETECTOR DESCRIPTION
(HDD) DOCUMENT

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Function: What does the entity do?

It is a human distance detector that allows people to keep the distance of one meter between each other it gives the warning if two people come closer with a distance of less than one meter by switching off the light and if they keep a distance to each other it automatically switch on the light again

Performance: How well does it (or intend to) do it?

Assuming effective network coverage:

HDD aim to achieve the following end goals:

- Eliminate spreading of virus from the workers by enforcing the social distance by giving the warning if they coming in contact to each other
- Enforce the social distance in the workers in their working place
- HDD will provide warning when workers come in contact to each other by automatically switch off the light

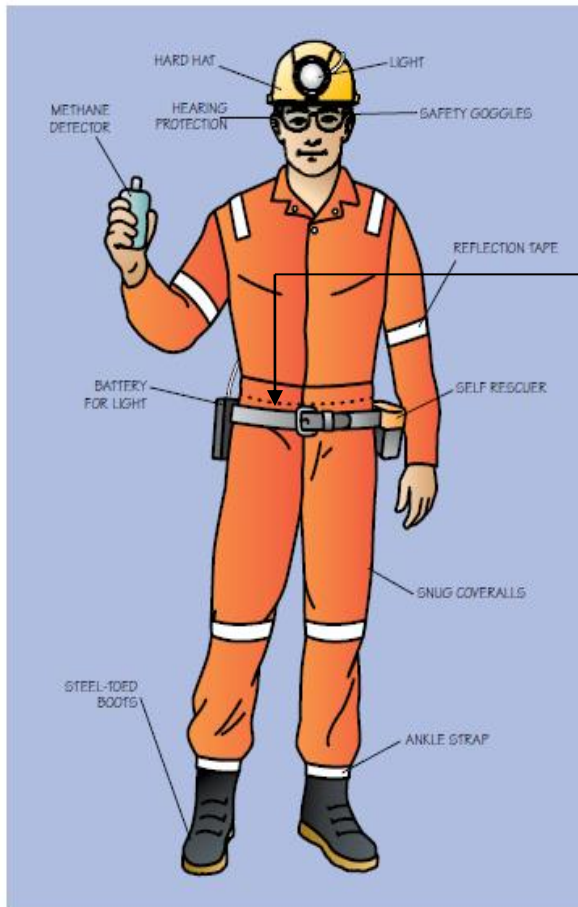
Principle: How does it (or intend to) do it?

HDD is intending to enforce the social distance by disconnect the power light that is used by the mining workers underground when they interacted to each other unaware.

HDD will give the warning by the light that will be automatically switched off and when they maintain a distance the light will automatically Switch on again



Where the HDD device should be mounted



HDD will be hooked in the belt of a user together with the battery light

HDD will be connected between the light and battery as it shown here

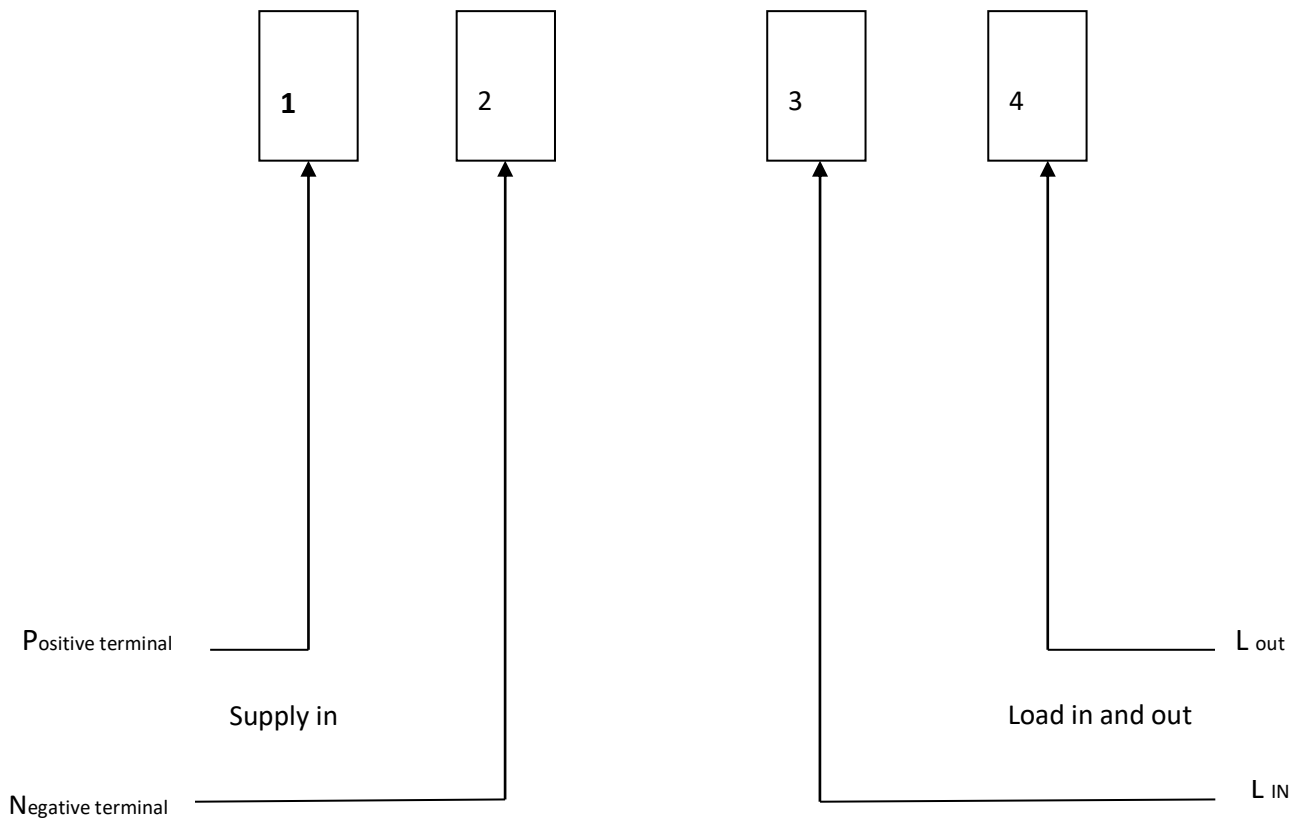


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Principle: How does it will be installed?

INSTALLING HDD DEVICE IN TO THE LIGHT



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<u>Problems</u>	<u>Solution</u>	<u>Unique Value</u>
<p>#1 workers spread the virus easier because of the social distance that is so hard to be obtained due to the noisily working place.</p> <p>#2 gathered in on carriage in a large number that make it so hard to obtain the social distance .</p> <p>#3 standing in queues while there is nothing that enforcing the social distance from one another.</p>	<p>#1 automatically human distance detector that will give the warning when two workers interacted to each other</p> <p>#2 detect less than one meter distance by switching off a light and also switch it on when they keep more than one meter automatically</p>	<p>#1 Reducing the spreading of the virus</p> <p>#2 forcing the social distance in the working place</p> <p># 3 keeping workers in caution when they coming closer.</p> <p>#4 Reduce numbers of infection risk in the working place.</p>
<u>Existing Alternatives</u>	<u>Key Metrics</u>	<u>High Level Concept</u>
<p>#1 wearing of faces masks.</p> <p>#2 using of sanitises to wash hands every day.</p> <p>#3 screening of workers every day.</p>	<p>#1. Increases safety working in the working place.</p> <p>#2. Decrease the spreading of infection.</p>	<p>Automatically detect the human distance and give the warning if they are closer than a one meter distance.</p>



HOW IT WORKS (more effective than only ensuring the following)

To keep social distance only in the surface queues

giving the masks that they take it off when they speaking to each other due to the noisily environment

screening them everyday

Packages and prices

As stated above mining industries and other companies recognize and understand they it's a must for them to ensure the safety of the workers in the working place as the mining health and safety act of 1996 section 29 state that the employer should provide for protection of the health and safety of workers and other person at the mines and for that purpose

- To promote a culture of health and safety
- To provide for the enforcement of health and safety measures
- To provide for appropriate systems of employee, employer and state participation in health and safety matters

So for the company to comply with the safety regulations measures such product will be the effective measure to comply.

Below are our packages.

	Package 1 (Own HDD)	Package 2 (Own HDD)	Package 3 (Lease HDD min one yr)	Package 4 (Lease HDD min 2yr)
Sale of HDD device	❖	❖		
Installation fees	❖		❖	
Subscription fees	❖	❖	❖	❖
Maintenance fees	❖		❖	
Training for Installation & Maintenance fees		❖		❖

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The cost per packages

Leasing of the device

	For one year	For two years
<i>Installation Cost (once off)</i>	R 150	R 120
<i>Subscription Cost (per month)</i>	R 120	R 100
<i>Maintenance</i>	R 60	R 40

Owning of the device

	Cost price	Installation cost	Maintenance
<i>Buy the device with installation and maintenance</i>	R 750	R 60	R 40
<i>Only buy the device</i>	R 850		
<i>Buy device and installation only</i>	R 800	R 60	
<i>Buy the device and need maintenance only</i>	R 810		R 40
<i>Training fees (per person)</i>		R 50	R 50

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