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Infrared Hot Metal and Loop Scanner Sensors

HIGH QUALITY INSTRUMENTATION FOR METALS INDUSTRY



102000

MOT METAL DETECTORS

The ID2000 series of optical detectors are designed to detect the /presence of infrared emitting/bodies/Typical/application/is/the material/ presence/detection in hot/wire rod, bars and section mills or in plate and hot strip mills. They can also be applied to other applications In/which it is/necessary to detect/infrared emitting objects. The ID2000 series of sensors have been designed/specifically/for the steel Industry, capable to be installed in extreme environmental conditions. Several solutions are available in terms of mechanical arrangement (e.g. fiber optic/sensing head option), temperature ranges and field of view/geometries. Quality and/reliability of/DANIELVAUTOMATION detectors give our customers the possibility to benefit from a 3 year warrantee. The photodetector/has a semi-circular/support plate/that allows it to/be mounted, and alighed in the vertical plane/within an angle/of approximately/30%.

Low voltage operation Suitable for harsh industrial



TECHNICAL SPECIFICATIONS

Model	Object temperature	Viewing angle	Typical/application	
× ID2400	≥ 350 °C (660 °F)	H/V: 8°/16°	For detection of low temperature objects, e.g. steel, copper	
3 ID2200	≥ 450 °C (842 °F)	H/V: 4°/12°		
> ID2210 (*)	≥ 450 °C (842 °F)	H/V: 0.5°/30°	Sharp blade-like field of view hot metal detector of ferrous and non-ferrous objects, low temperature range	
> ID2250 (fibre optic)	≥ 450\°C (842\°F)\	H/V: 7°/18°	Hot metal detector of low temperature objects in harsh conditions with space limitations, high environment temperature, dust and water oil mist. Glass manufacturing applications	
>ID2250/N (fibre option	c) ≥ 450 °C (842 °F)	H/V: 1\5°/1.5°		
),ID2000	≥ 650°C (1200°F)	H/v:5°/10°	Hot metal detector of ferrous and non-ferrous objects	
»ID2010 (**)	≥ 650°C (1300°F)	HXX: 0.3°X30°	Sharp blade-like field of view hot metal detector of ferrous and non-ferrous objects	

(**) Upgraded, available from 10, 2011, formerly ID6100NHR

(*) New version, available from 10, 2011

BENEFITS

- Static operation, no moving parts and wearing parts
- Maintenance free
- Several geometrical
- and temperature kange/solutions
- Ruggedized aluminium case
- IP66/IP67 protection degree

ACCESSORIES

- Neat protection shield Air purging device
- (using compressed air)

ID6000

LOOP SCANNER SENSORS FAMILY

(D6000 series devices are optical loop detectors (loop "scanners") for application in hot rolling mills with temperatures above 450°C (approx. 840° F).

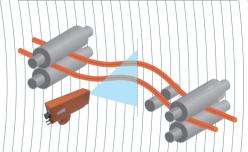
They have been specifically designed for use as hot rolling mill loop-position detectors between two stands.

TECHNICAL/SPECIFICATIONS

		(JD6100)	/ID6210/ (*)///////////////////////////////////	
Field ranges		vertical: 45°/30° (selectable) horizontal: 0.5°)/vertical: 30°/ horizontal: 0,5°//	
_) Resolution	0.19	0,29	
_	→ Detection spectrum	from 830 to 1000 nm	from 900 to 1700 nm	
	→ Object-temperature	=700°C (1300°F)	≥ 450°C/(840°F)	
_	› Response time	<.3 ms	3,ms</td	
	→ Outputs	Position: analog voltage/current selectable range Profibus/DP interface (Optional) Presence: digital: NPN/PNP 24/VDC/200 mA/max.		
	› Protection-grade	1P66		
		10 hosts / /s / ochoo	///////////////////////////////////////	

(*) Upgraded, available from 1Q 2011, formerly ID6200

PRINCIPLE OF OPERATION



The ID6000 is powered by a low voltage DC supply, and has loop position analog outputs (voltage and current) as well as stock presence NPN/PNP open/collector/outputs/all/protected/ against overload and overvoltage. The device has a semi-circular support plate that allows it to be mounted and aligned in the vertical plane within an angle of approximately/30%

BENEFITS

- Non-contact/measurement/
- > Easy to/use/
- Compact dimensions
- / Pointing/aid/visual tools
- Low maintenance

ACCESSORIES

- › Heat protection/shield
- Air purging device (using/compressed air)