

SCREENS AND SUB/SCREENS

Discrete

- Diodes
- Opto-electronics
- Lamps and displays
- Crystals
- Tubes

Passive

- Capacitors
- Resistors
- Inductive
- Microwave

Instruments and Analysers

- Analysers
- Fire and Gas detection
- Meters
- Flow instruments
- Pressure instruments
- Level instruments
- Temperature instruments

Connection

- Connections and connectors
- Switches and breakers
- PCBs cables and leads

Electro-mech

- Relays and solenoids
- Rotating machinery

Power

- Cells and chargers
- Supplies and transformers

Mechanical

- Pumps
- Valves and parts
- Bearings
- Miscellaneous

Pneumatics

Hydraulics

Computer, DP and communications

Alarms, fire protection, arresters and fuses

Subsea Equipment

Tanks, Vessels and Bunds

Human error probabilities

INDEX OF COMPONENTS/TAXONOMY

ITEM	SCREEN	
<i>(Valves are listed under the valves screens)</i> AC motor machinery		Rotating
AC/DC power supply	Supplies & transformers	
Accelerometer	Analysers and Meters & Miscellaneous	
Accumulator	Pneumatics & hydraulics PLUS Subsea	
Acidity	Analysers	
AC relay	Relays & solenoids	
Actuators	Valve parts	
Aerial	Communications Equipment	
Air compressor	Pneumatics & hydraulics	
Air compressor	Pumps and compressors	
Air speed indicator	Meters and miscellaneous	
Alarm bell	Alarms, fire protection, arresters & fuses	
Alarm circuit	Alarms, fire protection, arresters & fuses	
Alarm panel	Alarms, fire protection, arresters & fuses	
Alarm (siren)	Alarms, fire protection, arresters & fuses	
Alpha detector	Analysers	
Alternator	Rotating machinery	
Alternator	Supplies & transformers	
Ammeter	Meters and miscellaneous	
Amplifier (trip)	Alarms, fire protection, arresters & fuses	
Analogue flow	Flow measurement/control	
Antenna	Communications Equipment	
Arrester	Alarms, fire protection, arresters & fuses	
ASIC	Microelectronics	
Attenuator	Communications Equipment	
Avalanche diode	Diodes	
Ball Bearings	Bearings	
Battery ...	Cells, chargers & igniters	
Battery connector	Cables, leads, busbars and PCBs	
Battery connector	Connectors & connections	
Bearings	Bearings	
Bell	Alarms, fire protection, arresters & fuses	
Bellows	Miscellaneous mechanical	
Bellows	Pneumatics & hydraulics	
Bellows	Valve parts	
Belts	Miscellaneous mechanical	
Beta detector	Analysers	
Blow down	Valves – offshore	
Blower	Rotating machinery	
Boiler pump	Pumps and compressors	
Bourdon Tube	Pressure measurement/control	
Breakglass unit	Alarms, fire protection, arresters & fuses	
Breathing apparatus	Alarms, fire protection, arresters & fuses	
Brushes	Rotating machinery	
Bunds	Tanks, vessels bunds	

Bursting disc	Alarms, fire protection, arresters & fuses
Busbar	Cables, leads, busbars and PCBs
Bushes	Bearings
Cable	Cables, leads, busbars and PCBs PLUS Subsea
Calorimeter	Analysers
Capacitance flow sensor	Flow measurement/control
Capacitance level sensor	Level measurement/control
Capacitor bank	Capacitors
Capacitor	Capacitors
CD/DVD Drive	Computers and DP
Cell	Cells, chargers & igniters
Centrifugal pump	Pumps and compressors
Centrifuge	Rotating machinery
Cermet	Resistors
Charger	Cells, chargers & igniters
Chlorine sensor	Fire and gas detectors
Chlorine head	Gas sensor (heads only)
CHP	Rotating machinery
Chromatograph	Analysers
Circuit breaker	Switches and breakers
Clutch	Miscellaneous mechanical
CO detector (portable)	Fire & Gas Detectors
CO ₂ detector	Analysers
Coaxial connector	Connectors & connections
Coaxial line	Communications Equipment
Comms casble (subsea)	Subsea, Instruments and communications
Communications Link Cu	Communications Equipment
Comms Link Fibre	Communications Equipment
Comms termination	Sub-sea equipment
Compression joint	Leakage/release
Compressor	Pumps and compressors
Compressor	Rotating machinery
Computer	Computers and DP
Conductivity	Analysers
Conductivity level switch	Level measurement/control
Conveyor belt	Miscellaneous mechanical
Conveyor belt idler	Miscellaneous mechanical
Copper Comms Link	Communications Equipment
Counter (mechanical)	Miscellaneous mechanical
Counter	Meters and miscellaneous
Couplings (flex and rigid)	Miscellaneous mechanical PLUS Subsea
Crimp	Connectors & connections
Crystal oven	Crystals & Piezo
Damper	Alarms, fire protection, arresters & fuses
DC motor	Rotating machinery
DC/DC converter	Supplies & transformers
Delay line	Communications Equipment
Density cell	Analysers
Density cell	Pressure measurement/control
Dewpoint	Analysers

Diaphragm	Valve parts, Miscellaneous mechanical
Diaphragm pump	Pumps and compressors
Diesel engine	Rotating machinery
Diesel generator	Supplies & transformers
Differential Pressure Sw	Pressure measurement/control
DIL connector	Connectors & connections
DIL/DIP switch	Switches and breakers
Diode	Diodes
Diode	Tubes
Dish	Microwave components
DRAM	Microelectronics
Drums	Tanks, vessels bunds
Drive couplings	Miscellaneous mechanical
DVD	Computers and DP
Dynamometer	Meters and miscellaneous
Electricity supply	Supplies & transformers
EPROM	Microelectronics
Ethernet	Communications Equipment
Fan	Rotating machinery
Feed pump	Pumps and compressors
FET	Transistors
Fibre optics	Opto-electronics
Fibre optic Comms link	Communications Equipment
Filament lamp	Lamps & Displays
Filter	Miscellaneous mechanical
Fire damper	Alarms, fire protection, arresters & fuses
Fire rod	Fire and gas detectors
Fire sprinkler	Alarms, fire protection, arresters & fuses
Fire wire	Fire and gas detectors
Firewater pump (diesel)	Alarms, fire protection, arresters & fuses
Firewater pump (electrical)	Alarms, fire protection, arresters & fuses
Firewater pump	Pumps and compressors
Fixed wave guide	Microwave components
Flame failure	Fire and gas detectors
Flange	Leakage/release
Flexible hose	Pneumatic hydraulic and Leakage/release
Flexible wave guide	Microwave components
Float gauge	Level measurement/control
Flow	Flow measurement/control
Flow solder	Connectors & connections
FPGA	Microelectronics
Fuel cell	Cells, chargers & igniters
Fuel pump	Pumps and compressors
Fuse	Alarms, fire protection, arresters & fuses
GaAs	Microelectronics
Gamma detector	Analysers
Gas detector	Fire and gas detectors
Gas discharge tube	Tubes
Gas Engine	Rotating machinery
Gas Turbine	Pumps and compressors

Gas Turbine	Supplies & transformers
Gas Turbine blades	Supplies & transformers
Gasket	Leakage/release
Gear	Miscellaneous mechanical
Geiger	Analysers
Generator (s)	Supplies & transformers
Germanium transistor	Transistors
Gyroscope	Meters and miscellaneous
H ₂ S sensor	Fire and gas detectors
Hand solder	Connectors & connections
Heat detector	Fire and gas detectors
Heat Exchanger	Tanks, vessels bunds
hf transistor	Transistors
High integrity valve	Valves
Hose flexible	Pneumatic hydraulic and Leakage/release
Hose hydraulic	Pneumatics & hydraulics
Humidity sensor	Analysers
HVAC filter	Miscellaneous mechanical
Hydraulic connector	Connectors & connections
Hydraulic....	Pneumatics & hydraulics PLUS Subsea
Hydrogen	Analysers
Hydrogen sensor	Fire and gas detectors
Hydrostatic level transmitter	Level measurement/control
Idler	(see conveyor belt)
I/P converter	Meters and miscellaneous
I/P converter	Pneumatics & hydraulics
I/P converter	Pressure measurement/control
Igniter	Cells, chargers & igniters
Impulse line (leak)	Leakage and release
Impulse line (block)	Pneumatics & hydraulics
Inductive proximity switch	Inductive components
Inductor	Inductive components
Infra red detector	Fire and gas detectors
Instrument air compressor	Meters and miscellaneous
Instrument air supply	Meters and miscellaneous
Instrument air supply	Pneumatics & hydraulics
Instrument connection	Leakage/release
Instrument fan	Rotating machinery
Inverter	Supplies & transformers
IR detector	Fire and gas detectors
ISB (see Isolating Barrier)	
Isolating barriers	Alarms, fire protection, arresters & fuses
Jewel bearings	Bearings
Keyboard	Computers and DP
Keypad	Switches and breakers
Keyswitch bulb	Lamps & Displays
Keyswitch	Switches and breakers
Klaxon	Alarms, fire protection, arresters & fuses
Klystron	Communications Equipment
Klystron	Microwave components

Klystron	Tubes
Knock-over switch	Level measurement/control
Laser	Opto-electronics
LCD	Lamps & Displays
LED infra red	Opto-electronics
LED	Lamps & Displays
Level...	Level measurement/control
Limit switch	Switches and breakers
Linear accelerator	Microwave components
Linear accelerator	Tubes
Linear	Microelectronics
Load cell	Meters and miscellaneous
Loading meter	Meters and miscellaneous
Logic	Microelectronics
Loudspeaker	Communications Equipment
Lube pump	Pumps and compressors
Mag tape drive	Computers and DP
Magnetic level sensor	Level measurement/control
Mainframe	Computers and DP
Mains	Supplies & transformers
Mains transformer	Supplies & transformers
Manometer	Pressure measurement/control
Mass flow controller	Flow measurement/control
MCS (Master control station)	Sub-sea equipment
Microcomputer	Computers and DP
Microprocessor	Microelectronics
Microswitch	Switches and breakers
Microwave diode	Diodes
Microwave dish	Communications Equipment
Microwave radio	Communications Equipment
Microwave tower	Communications Equipment
Microwave	Microwave components
Mini-computer	Computers and DP
MMIC	Microelectronics
Modem	Communications Equipment
Motor	Rotating machinery
Motor set	Supplies & transformers
Moving coil meter	Meters and miscellaneous
Moving iron meter	Meters and miscellaneous
Neon	Lamps & Displays
Neutron detector	Analysers
npn	Transistors
'O' ring	Leakage/release
Optical line terminal	Opto-electronics
Optical network unit	Opto-electronics
Opto-coupler	Opto-electronics
Orifice plate	Flow measurement/control
Oscilloscope	Lamps & Displays
Oven (crystal)	Crystals & Piezo
Oxygen	Analysers

Oxygen sensor	Fire and gas detectors
PC	Computers and DP
PCB connector	Connectors & connections
PCB	Cables, leads, busbars and PCBs
Pellistor	Fire and gas detectors
Peltier cooler	Transistors, PBAs
Pentode	Tubes
pH	Analysers
Photocell	Opto-electronics
Phototransistor	Transistors
Phototransistor	Opto-electronics
Piezo device	Crystals & Piezo
Pipe joint	Leakage/release
Pipe weld	Connectors & connections and Leakage/release
Pipework	Leakage/release
PLA	Microelectronics
Plant air supply	Pneum and hydraulic
Plant pipework	Leakage/release
Plasma display	Lamps & Displays
Plated thru hole	Connectors & connections
PLC	Computers and DP PLUS Subsea
Pneumatic connector	Connectors & connections
Pneumatic controller	Pneumatics & hydraulics
Pneumatic...	Pneumatics & hydraulics
Power cable	Subsea, Instruments and communications
Power connector	Connectors & connections
Power factor correction	Capacitors
Power rectifier	Diodes
Pressure relay	Pneumatics & hydraulics
Pressure sensor impulse line	Pneumatics & hydraulics
Pressure.....	Pressure measurement/control PLUS Subsea
Pressure vessel	Leakage/release
Printed Board Assy	Transistors
PROM	Microelectronics
Pressure vessels	Tanks, vessels bunds
Proximity switch	Inductive components, Switches & breakers
Pulsed I/P converter	Pressure measurement/control
Pump	Pumps and compressors
Pushbutton	Switches and breakers
Pyrometer	Temp measurement/control
Quartz crystal	Crystals & Piezo
Radar level transmitter	Level measurement/control
Radiation detector	Fire & Gas Detectors
Railway signaling relay	Relays & solenoids
Rate of rise	Fire and gas detectors
Rechargeable battery	Cells, chargers & igniters
Reciprocating pump	Pumps and compressors
Reed relay	Relays & solenoids
Reed switch	Switches and breakers
Refrigerated vessels	Tanks, vessels bunds

Relays ...	Relays & solenoids
Resistance thermometer	Temp measurement/control
Resistor	Resistors
Resolver	Rotating machinery
rf connector	Connectors & connections
Roller bearings	Bearings
ROM	Microelectronics
Rotary converter	Supplies & transformers
Rotary converter	Supplies & transformers
Rotary switch	Switches and breakers
Router	Communications Equipment
Rubber gasket	Leakage/release
“Safety” relay	Relays & solenoids
Salinity sensor	Analysers
Schottky	Diodes
Scintillation counter	Analysers
SCR (Silicon Controlled Rectifier)	Diodes
Semiconductor temp probe	Temp measurement/control
Servo	Rotating machinery
Signal cable	Subsea, Instruments and communications
Signal transformer	Supplies & transformers
Silicon photodiode	Opto-electronics
Silicon	Transistors
Siren	Alarms, fire protection, arresters & fuses
Sleeve bearings	Bearings
Smoke detector	Fire and gas detectors
Solar battery	Cells, chargers & igniters
Solar panel	Supplies & transformers
Solenoid	Inductive components
Solenoids	Relays & solenoids
Sounder	Alarms, fire protection, arresters & fuses
Spark igniter	Cells, chargers & igniters
Speed Probe	Meters & Miscellaneous
Spring	Valve parts
Sprinkler	Alarms, fire protection, arresters & fuses
SRAM	Microelectronics
Stabilised power supply	Supplies & transformers
Starter motor	Rotating machinery
Steam turbine	Pumps and compressors
Steam turbine	Rotating machinery
Steam turbine	Supplies & transformers
Stepper motor	Rotating machinery
Subsea coms line	Communications Equipment
Surge arrester	Alarms, fire protection, arresters & fuses
Surge arrester	Inductive components
Synchro	Rotating machinery
Tachometer	Meters and miscellaneous
Tanks	Tanks, vessels bunds
Tank Load meter	Meters and miscellaneous
Telephone Line	Communications Equipment

Temperature...	Temp measurement/control PLUS Subsea
Tetrode	Tubes
Thermal delay switch	Switches and breakers
Thermionic Diode	Tubes
Thermistor	Resistors
Thermocouple	Meters and miscellaneous
Thermocouple	Temp measurement/control
Thermostat	Temp measurement/control
Thermostat	Meters and miscellaneous
Threaded joint	Leakage/release
Thyratron	Tubes
Thyristor	Diodes
Timer	Alarms, fire protection, arresters & fuses
Timer	Miscellaneous mechanical
Toggle switch	Switches and breakers
Transformer	Supplies & transformers
Transistor	Transistors
Triac	Diodes
Triode	Tubes
Trip Amp	Alarms, fire protection, arresters & fuses
Tuning coil	Inductive components
Turbine	Rotating machinery
Turbine	Supplies & transformers
TV camera	Communications Equipment
TV receiver	Communications Equipment
Umbilical	Subsea
Utilities interconnection module	Subsea Equip (Inst and Comms)
UV detector	Fire and gas detectors
Vacuum circuit breaker	Switches & breakers
Vacuum pump	Pumps and compressors
Valve Actuators	Valve parts
Valve flange	Leakage/release
Valves* (general)	Valves
Valves** (offshore)	Valves
Valves*** (subsea)	Subsea, Valves
Valves (electronic)	Tubes
Vane	Flow measurement/control
Varactor	Diodes
Variable speed drive	Supplies & transformers
Varistor	Resistors
Vessels	Tanks, vessels bunds
VDU	Computers and DP
VDU	Lamps & Displays
Vehicle ignition switch	Switches and breakers
Ventilation damper	Alarms, fire protection, arresters & fuses
vhf radio	Communications Equipment
Vibrating fork level sensor	Level measurement/control
Vibration monitor	Analysers and Meters & Miscellaneous
Vibration switch	Analysers and Meters & Miscellaneous
Voltage Regulator	Diodes

Voltmeter	Meters and miscellaneous
Water hardness	Analysers
Wave guide	Microwave components
Weld	Connectors & connections
Welded Union	Leakage/release
Wind turbine	Supplies & transformers
Wrap	Connectors & connections
XMAS Tree	Subsea, Valves
Zirconium oxide sensor	Fire & Gas Detectors, Detector Heads

* General Valves include:

Ball, Butterfly, Check, Diaphragm, ESD, Gate, Globe, HIPPS, Needle, Non-return, Relief, Solenoid, Spool

** Offshore Valves include:

Blow down, Chemical Injection, Deluge, ESD, Manifold, Master, Subsea, Vent, Wing, Xmas Tree

** Subsea Valves include:

Choke, Down-hole safety, Non return, Sub sea