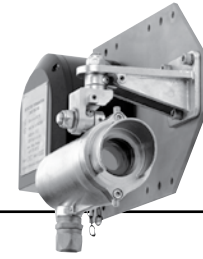



Sieger Searchline Excel SPECIFICATIONS



| Specification | |
|---------------------------------------|---|
| Available Gases: | Methane, Ethane, Propane, Butane, Pentane, Ethylene, Propylene, Ethanol, Methanol. |
| Range: | 0 to 5 LEL.m. |
| Recommended Alarm Settings: | (Low) 1.0 LEL.m; (high) 3.0 LEL.m. |
| Path Lengths: | Short Range 5 to 40m (15 to 130 ft.), Medium Range 40 to 120m (130 to 390ft.) and Long Range 120 to 200m (390 to 650ft.) |
| Speed of Response: | T90 less than 3 seconds. (under normal operating conditions). |
| Output Signal: | 4 to 20mA (maximum loop resistance 600 ohms; source & sink available) and RS485. 21mA Over range. 4 to 20mA Normal operation (0 to 5 LELm). 3mA ⁽¹⁾ Dirty optics. 2.5mA ⁽¹⁾ Beam blocked. 2mA ⁽¹⁾ Inhibit. 0mA Fault. |
| Digital Output: | Modbus RS485 multi drop. Using DVC100(m) or DX100(m). |
| Operating Temperature: | -40 to +65°C (-40 to 150°F). |
| Operating Humidity: | 0 to 99% RH (non-condensing). |
| Operating Pressure: | 91.5 to 105.5 KPa (915 to 1055 mbar) (non-compensated). |
| Warm-up Time: | Less than 5 minutes (operational), or less than 1 hour (fully stabilised). |
| Power Supply: | 18V to 32V dc. |
| Power Consumption: | Short Range TX: 3.5 / 5.0*W maximum. Medium and Long Range TX: 5.5 / 7.5*W maximum. RX: 8W maximum. |
| Enclosure Material: | 316 stainless steel. |
| Weight (inc. mounting bracket) | Short Range TX: 3.5kg. Medium and Long Range TX: 7kg. RX: 3.5kg. |
| Vibration: | 2 to 60Hz, max ptp amplitude 1mm. |
| Misalignment Tolerance: | Short Range ±0.5° (±~35cm at 40m). Medium Range ±0.5° (±~104cm at 120m). Long Range ±0.5° (±~170cm @ 200m). |
| EMC Standards: | EN50270:1999 |
| Performance Approval: | FM performance approved. |
| Safety Approval: | ATEX: EExd IIC T5(-40°C to +65°C). EExd IIC T6(-40°C to +40°C). Ⓜ II 2G. UL: Class 1 Div 1 Groups B,C + D and Class 1 Zone 1 AEx d IIB + H2 (Tamb -40°C to +65°C). CSA: Class 1 Div 1 Groups B,C + D, T5 and Exd IIC T5 (Tamb -40°C to +65°C). FM: Class 1 Div 1 Groups B,C and D Other: SAA, GOST. Independently assessed to IEC61508 |
| I.P. Rating: | IP66 and IP67. ⁽¹⁾ User programmable. * Turboheating activated (standard feature; user selectable). This is recommended for the most severe weather conditions. |

| Specification | |
|------------------------------------|--|
| Available Gas Calibrations: | Methane* |
| Detection Range: | 0-100% LEL |
| Minimum Alarm Thresholds: | 20% LEL (>0.5 to 2.5m duct width) 10% LEL (>2.5m to 5m duct width) |
| Speed of Response: | T90 < 1 second |
| Output Signals | Measuring range: 4-20mA sink or source (Default current source) Over range: 21mA Warning: 3mA Beam Block: 2.5mA Inhibit: 2mA Fault: 0mA |
| Diagnostics: | RS 485 serial link |
| Digital Output: | Modbus RS485 multi drop. (Using DVC100(m) or DX100(m)). |
| Operating Temperature: | -40 to +65°C (-40 to 150°F) ambient. Contact Honeywell Analytics for high temperature applications. |
| Operating Humidity: | 0-99% (non condensing) |
| Operating Pressure: | 91.5 - 105.5 kPa (non compensated) |
| Repeatability: | 5.0% LEL (<1 metre duct width) 2.5% LEL (>1 metre duct width) |
| Warm-up Time: | <1 hour (fully stabilised) |
| Power Supply: | 18 to 32V DC |
| Power Consumption: | Unit: 13W max. Heated Reflector Panel: 6W (nom) @ 24Vdc |
| Enclosure Material: | 316 Stainless steel |
| IP Rating: | IP66 and IP 67 |
| Weight: | Transceiver 13kg, reflector panel 2.0kg (>0.5 to 2.5m duct width), 4kg (>2.5 to 5.0m duct width) |
| Vibration: | 2-60 Hz, max ptp amplitude 1mm |
| EMC Standards: | EN50270:1999 |
| Performance Approval: | FM performance approved |
| Safety Approvals: | ATEX:  II 2 G EExd IIC T5 (-40 to +65°C). EExd IIC T6 (-40 to +40°C) Heated Panel: EExd IIC T4 (-40 to +60°C) UL: Class 1, Div 1, Groups B, C and D Class 1, Zone 1, AEx d IIB + Hydrogen (Amb -40°C to +65°C) |

*Contact Honeywell Analytics for other gases and approvals



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.