

SUCO 0532 ELECTRONIC PRESSURE SWITCH

053210130B007

NPN output (Low Side), NO, 0-10 Bar, M10x1 zyl. DIN
3852-A, AMP Superseal 1.5



- One Switching Output
- Stainless Steel & Titanium Wetted Parts
- Silicon-On-Sapphire Technology
- Factory Set



PRODUCT DESCRIPTION

The SUCO 0532 electronic pressure switch is a high-performance, factory-set device featuring a compact hex-22 stainless steel housing with titanium-wetted parts and welded design, eliminating elastomer seals. It utilises advanced Silicon-on-Sapphire (SoS) sensor technology, ensuring exceptional accuracy ($\pm 0.5\%$ FS) and long-term stability ($\pm 0.1\%$ FS/year), and delivers reliable overpressure protection up to $4\times$ the rated range. Available with a single NPN (low-side) normally-open transistor output capable of handling up to 0.5 A, it supports pressure ranges from 0–10 bar up to 0–600 bar. The 0532 offers a wide choice of process ports and electrical connections, and includes factory-set switching point and hysteresis, along with a fast response time of under 4 ms.

The 0532 is ideal for high-integrity industrial and mobile hydraulic applications, such as in construction equipment, off-road vehicles, and pneumatic systems, where compactness, precision, and reliability are crucial. Its robust SoS sensor and welded housing offer high resilience to vibration, transient pressures, and wash-down conditions, making it suitable for severe environmental exposure. The NPN output with normally open configuration and field-programmed hysteresis allows seamless integration into PLC and relay-controlled systems for safety interlocks, pressure monitoring, and automated shutdown scenarios. The switch's fast response and low moving-part design reduce wear and improve lifespan, making the SUCO 0532 a dependable solution in OEM systems requiring compact, rugged, and high-precision pressure switching.

TECHNICAL DATA

GENERAL DATA

Adjustment range max	10 bar
Adjustment range min	0 bar
Electrical connection	AMP Superseal
Process connection	M10x1
Function	Normally open
Output	NPN
Burst pressure	80 bar
Pressure max	40 bar

TEMPERATURE & MATERIALS DATA

Temperature of media from	-40 °C
Temperature of media to	125 °C
Temperature ambient from	-40 °C
Temperature ambient to	100 °C
Material of body	Stainless steel 1.4305
Material of wetted parts	Stainless steel 1.4305, Titanium

ADDITIONAL DATA

Supply voltage dc max	32 V DC
Supply voltage dc min	9.6 V DC
Pressure rise	≤ 5,000 bar/s
Switching time	< 2 ms
Switching point adjustment range	2 ... 100 % of the nominal pressure range Full Scale (FS), programmable at factory
Weight	80 g

SAFETY & APPROVALS

IP class	IP67
Hysteresis	2..99.8% of nominal pressure range (full scale), programmable at factory
Shock resistance	500m / s²; 11 ms half sine wave; DIN EN 60068-2-27
Vibration resistance	20g; 4..2000 Hz sine wave, DIN EN 60068-2-6
EMC	EMC 2014/30/EU, EN 61000-6-2:2005, EN 61000-6-3:2007
Accuracy	±0.5 % of adjustment range (Full scale) at room temperature
Long term stability	±0.1 % of adjustment range (full scale) per year
Mechanical life expectancy	10,000,000 switching cycles at rise rates to 5,000 bar/s nominal pressure
Repeatability	±0.1 % full scale



Connection diagrams



Technical modifications and errors excepted.

DIN EN 17530-803-A <table border="1"> <thead> <tr> <th>Pin</th> <th>Assignment</th> </tr> </thead> <tbody> <tr><td>1</td><td>Ch1</td></tr> <tr><td>2</td><td>Ch2</td></tr> <tr><td>3</td><td>Ch3</td></tr> <tr><td>4</td><td>Ch4</td></tr> <tr><td>5</td><td>Ch5</td></tr> <tr><td>6</td><td>Ch6</td></tr> <tr><td>7</td><td>Ch7</td></tr> <tr><td>8</td><td>Ch8</td></tr> <tr><td>9</td><td>Ch9</td></tr> <tr><td>10</td><td>Ch10</td></tr> <tr><td>11</td><td>Ch11</td></tr> <tr><td>12</td><td>Ch12</td></tr> <tr><td>13</td><td>Ch13</td></tr> <tr><td>14</td><td>Ch14</td></tr> <tr><td>15</td><td>Ch15</td></tr> <tr><td>16</td><td>Ch16</td></tr> <tr><td>17</td><td>Ch17</td></tr> <tr><td>18</td><td>Ch18</td></tr> <tr><td>19</td><td>Ch19</td></tr> <tr><td>20</td><td>Ch20</td></tr> <tr><td>21</td><td>Ch21</td></tr> <tr><td>22</td><td>Ch22</td></tr> <tr><td>23</td><td>Ch23</td></tr> <tr><td>24</td><td>Ch24</td></tr> <tr><td>25</td><td>Ch25</td></tr> <tr><td>26</td><td>Ch26</td></tr> <tr><td>27</td><td>Ch27</td></tr> <tr><td>28</td><td>Ch28</td></tr> <tr><td>29</td><td>Ch29</td></tr> <tr><td>30</td><td>Ch30</td></tr> <tr><td>31</td><td>Ch31</td></tr> <tr><td>32</td><td>Ch32</td></tr> <tr><td>33</td><td>Ch33</td></tr> <tr><td>34</td><td>Ch34</td></tr> <tr><td>35</td><td>Ch35</td></tr> <tr><td>36</td><td>Ch36</td></tr> <tr><td>37</td><td>Ch37</td></tr> <tr><td>38</td><td>Ch38</td></tr> <tr><td>39</td><td>Ch39</td></tr> <tr><td>40</td><td>Ch40</td></tr> <tr><td>41</td><td>Ch41</td></tr> <tr><td>42</td><td>Ch42</td></tr> <tr><td>43</td><td>Ch43</td></tr> <tr><td>44</td><td>Ch44</td></tr> <tr><td>45</td><td>Ch45</td></tr> <tr><td>46</td><td>Ch46</td></tr> <tr><td>47</td><td>Ch47</td></tr> <tr><td>48</td><td>Ch48</td></tr> <tr><td>49</td><td>Ch49</td></tr> <tr><td>50</td><td>Ch50</td></tr> <tr><td>51</td><td>Ch51</td></tr> <tr><td>52</td><td>Ch52</td></tr> <tr><td>53</td><td>Ch53</td></tr> <tr><td>54</td><td>Ch54</td></tr> <tr><td>55</td><td>Ch55</td></tr> <tr><td>56</td><td>Ch56</td></tr> <tr><td>57</td><td>Ch57</td></tr> <tr><td>58</td><td>Ch58</td></tr> <tr><td>59</td><td>Ch59</td></tr> <tr><td>60</td><td>Ch60</td></tr> <tr><td>61</td><td>Ch61</td></tr> <tr><td>62</td><td>Ch62</td></tr> <tr><td>63</td><td>Ch63</td></tr> <tr><td>64</td><td>Ch64</td></tr> <tr><td>65</td><td>Ch65</td></tr> <tr><td>66</td><td>Ch66</td></tr> <tr><td>67</td><td>Ch67</td></tr> <tr><td>68</td><td>Ch68</td></tr> <tr><td>69</td><td>Ch69</td></tr> <tr><td>70</td><td>Ch70</td></tr> <tr><td>71</td><td>Ch71</td></tr> <tr><td>72</td><td>Ch72</td></tr> <tr><td>73</td><td>Ch73</td></tr> <tr><td>74</td><td>Ch74</td></tr> <tr><td>75</td><td>Ch75</td></tr> <tr><td>76</td><td>Ch76</td></tr> <tr><td>77</td><td>Ch77</td></tr> <tr><td>78</td><td>Ch78</td></tr> <tr><td>79</td><td>Ch79</td></tr> <tr><td>80</td><td>Ch80</td></tr> <tr><td>81</td><td>Ch81</td></tr> <tr><td>82</td><td>Ch82</td></tr> <tr><td>83</td><td>Ch83</td></tr> <tr><td>84</td><td>Ch84</td></tr> <tr><td>85</td><td>Ch85</td></tr> <tr><td>86</td><td>Ch86</td></tr> <tr><td>87</td><td>Ch87</td></tr> <tr><td>88</td><td>Ch88</td></tr> <tr><td>89</td><td>Ch89</td></tr> <tr><td>90</td><td>Ch90</td></tr> <tr><td>91</td><td>Ch91</td></tr> <tr><td>92</td><td>Ch92</td></tr> <tr><td>93</td><td>Ch93</td></tr> <tr><td>94</td><td>Ch94</td></tr> <tr><td>95</td><td>Ch95</td></tr> <tr><td>96</td><td>Ch96</td></tr> <tr><td>97</td><td>Ch97</td></tr> <tr><td>98</td><td>Ch98</td></tr> <tr><td>99</td><td>Ch99</td></tr> <tr><td>100</td><td>Ch100</td></tr> </tbody> </table> <p>ISO 1570-803-A</p> <p>Order number: 001</p>	Pin	Assignment	1	Ch1	2	Ch2	3	Ch3	4	Ch4	5	Ch5	6	Ch6	7	Ch7	8	Ch8	9	Ch9	10	Ch10	11	Ch11	12	Ch12	13	Ch13	14	Ch14	15	Ch15	16	Ch16	17	Ch17	18	Ch18	19	Ch19	20	Ch20	21	Ch21	22	Ch22	23	Ch23	24	Ch24	25	Ch25	26	Ch26	27	Ch27	28	Ch28	29	Ch29	30	Ch30	31	Ch31	32	Ch32	33	Ch33	34	Ch34	35	Ch35	36	Ch36	37	Ch37	38	Ch38	39	Ch39	40	Ch40	41	Ch41	42	Ch42	43	Ch43	44	Ch44	45	Ch45	46	Ch46	47	Ch47	48	Ch48	49	Ch49	50	Ch50	51	Ch51	52	Ch52	53	Ch53	54	Ch54	55	Ch55	56	Ch56	57	Ch57	58	Ch58	59	Ch59	60	Ch60	61	Ch61	62	Ch62	63	Ch63	64	Ch64	65	Ch65	66	Ch66	67	Ch67	68	Ch68	69	Ch69	70	Ch70	71	Ch71	72	Ch72	73	Ch73	74	Ch74	75	Ch75	76	Ch76	77	Ch77	78	Ch78	79	Ch79	80	Ch80	81	Ch81	82	Ch82	83	Ch83	84	Ch84	85	Ch85	86	Ch86	87	Ch87	88	Ch88	89	Ch89	90	Ch90	91	Ch91	92	Ch92	93	Ch93	94	Ch94	95	Ch95	96	Ch96	97	Ch97	98	Ch98	99	Ch99	100	Ch100	M 12 - 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