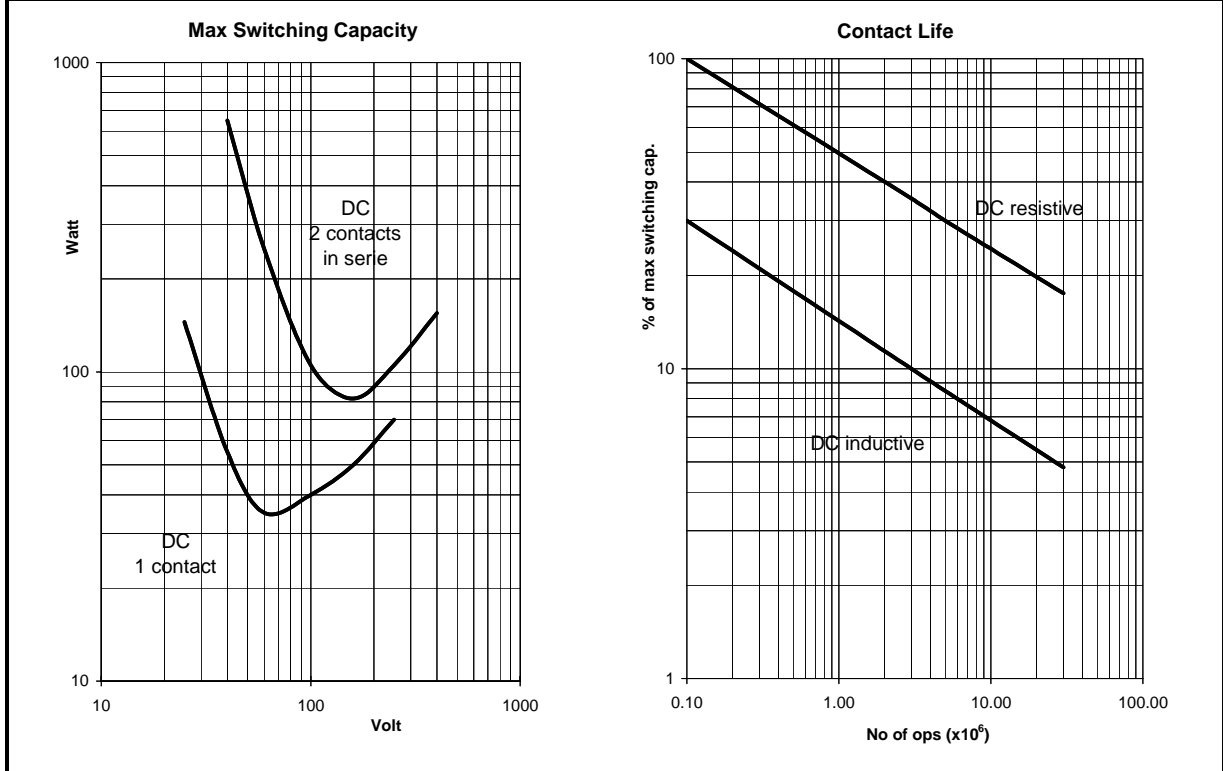


MONITORING RELAY																																										
Product	ACD series Battery voltage monitoring relay			Country of Origin:	The Netherlands																																					
Dimensions				Company																																						
				P.O. Box 7023 3502 KA Utrecht The Netherlands T +31 (0)30-288 13 11 F +31 (0)30-289 88 16 E sales@nieaf-smitt.nl I www.nieaf-smitt.nl																																						
				Connection Diagram																																						
Description	<p>Electronic plug-in monitoring relay for battery voltages. The relay reacts on the mean value of a DC-voltage with ripple. The pull-in voltage and hysteresis is adjustable by means of multiturn trimpotentiometers. The pull-in time after crossing the setpoint is < 15ms. The drop-out time is approximately 20 ms, which can be extended to 250 ms. (see below) Optional the relay can be supplied with fixed (sealed) set values, or led indication. The ACD relays are pluggable into standard D sockets.</p>																																									
Input data	<table border="1"> <thead> <tr> <th>Type</th> <th>U_{nom} (V)</th> <th>U_{max} (V)</th> <th>$U_{pull-in}$ (V) *)</th> <th>$U_{hysteresis}$ (V)</th> <th>Power consumption (W)</th> </tr> </thead> <tbody> <tr> <td>ACD-024</td> <td>24</td> <td>35</td> <td>21...33</td> <td>1...8</td> <td>< 0.55</td> </tr> <tr> <td>ACD-048</td> <td>48</td> <td>70</td> <td>42...66</td> <td>2...16</td> <td>< 0.85</td> </tr> <tr> <td>ACD-060</td> <td>60</td> <td>88</td> <td>52...82</td> <td>3...20</td> <td>< 1.10</td> </tr> <tr> <td>ACD-110</td> <td>110</td> <td>160</td> <td>90...140</td> <td>4...32</td> <td>< 1.35</td> </tr> <tr> <td>ACD-125</td> <td>125</td> <td>180</td> <td>110...160</td> <td>5...40</td> <td>< 1,50</td> </tr> </tbody> </table>						Type	U_{nom} (V)	U_{max} (V)	$U_{pull-in}$ (V) *)	$U_{hysteresis}$ (V)	Power consumption (W)	ACD-024	24	35	21...33	1...8	< 0.55	ACD-048	48	70	42...66	2...16	< 0.85	ACD-060	60	88	52...82	3...20	< 1.10	ACD-110	110	160	90...140	4...32	< 1.35	ACD-125	125	180	110...160	5...40	< 1,50
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	*) Other pull-in voltage- or hysteresis ranges are possible on request.																																									
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Repeat accuracy	$\pm 1 \%$																																									
Temperature coefficient	$\pm 0.1 \%/K$																																									
Working Principle																																										
	Adjustments 																																									

Contact data			
Max. make current	15 A	Material	Ag+0.2µm Au
Max. cont. current	6 A (AC1 ; IEC 60947)	Contact gap	0.3 mm
Max. switching voltage	DC	300 V, 300 mA	Insulation between open contacts
	AC		
Min. switching voltage	4V / 2mA / 0.1W-VA	Contact force	> 20 cN
Max. contact resistance	15 mΩ	Note : contacts cannot have a different position. (Forced contacts, Weld-no-transfer)	
Maximum switching capacity and contact life: see graph			



General Data			
Dielectric strength	Pole-Pole	IEC 60255-5	3,5 kV, 50 Hz
	Cont-Coil	IEC 60077	4 kV, 50 Hz
Pulse withstanding	IEC 60255-5	5 kV (1.2/50 µs)	
EMC	IEC 60255-5	2.5 kV, 1 MHz, 400 Hz, 10 s	
Vibration	IEC 60077	5 g at 50 Hz	
	IEC 60571-1	2 g, 10-150 Hz	
	IEC 60068-2-6		
Shock	IEC 60068-2-27	15 g, 11 ms	
Mechanical life		30*10 ⁶ ops	
Max. switching frequency		1200 ops/h	
Weight		120 g	
Temperature	T _{amb,max}	+ 70 °C	
	T _{amb,min}	- 25 °C	
Humidity		80 %, temporary permitted condensation	
Protection		IP 40	
Materials		Polyester	
		Makrolon	

Australian Distributor



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