DISIBEINT

 \bullet

PHAA / DHAA TACHOMETRIC RELAY

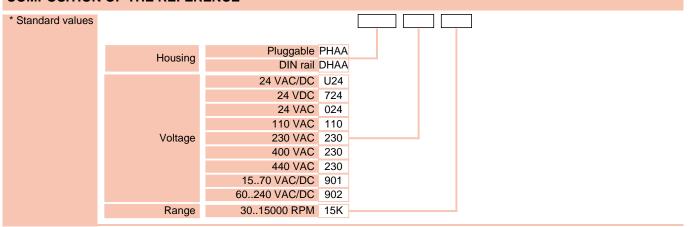


Application	Connected to turn detection concerns the tac	homotors relays monitor the PDM of motors, turbings	
	Connected to turn detection sensors, the tachometers relays monitor the RPM of motors, turbines, generators, etc., to act on the selected detection points.		
Measurement magnitude	Revolutions per minute (RPM)		
Working mode			
Over-RPM detection	Relay status OFF: The relay activates when the number of RPM is greater than the adjusted value and deactivates when the number of RPM is 3% less than said value. Relay status ON: The relay acts in reverse to the operation indicated above.		
Low-RPM detection	When the supply voltage is connected, the relay is activated instantly and remains in this state for the set time. After this time: Relay status ON: if the number of RPM is less than the set value, the relay sin deactivates. It is activated when the RPM number is 3% higher than said value. Relay status OFF: The relay acts in reverse to the operation indicated above.		
Technical data			
Type of sensor	 PNP o NPN, 3 wires. 10 mA / 24 VDC Namur Dry contact, potential free 		
Operating ranges	- 300: 30 300 RPM - 3000: 300 3000 RPM - 15000: 1500 15000 RPM		
Hysteresis	3%, fixed.		
Response time			
Timing	Adjustable from 0 to 30 s, \pm 10%. It only works in low-RPM detection, when the supply voltage is connected.		
Status Indication	Yellow LED: Pulse input Red LED: Relay activated Green LED: Supply voltage		
Operating diagrams			
Detection by low-RPM	Low-RPM Relay OFF	Low-RPM Relay ON	
Detection by over-RPM	Over-RPM Relay OFF	Over-RPM Relay ON	



Adjust mode		
Function		Select the working mode (over-RPM, under-RPM) and the status of the relay under normal working conditions.
Range	3.000	Select the full scale of the working range that most closely approximates, by the high side, the RPM value to be controlled.
R.P.M.		Adjust the trigger point taking into account the value selected in the RANGE button: • 300 : From 30 to 300 RPM • 3000 : From 300 to 3000 RPM • 15000 : From 1500 to 15000 RPM
Time	0 300	It only works in low-RPM detection mode: adjust the time it takes for the process to go into revolutions.
Electrical wiring		
PHAA	 <!--</th--><th>$\begin{array}{c}$</th>	$ \begin{array}{c} $
DHAA	 ✓— Y1 PNP / NPI Z2 10 mA 	N (22) + (21) NAMUR (22) - (12) (1

COMPOSITION OF THE REFERENCE

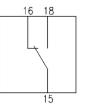




OUTPUT RELAY

Model	PxxA	DxxA	
Resist.load AC DC	10A/250V 10A/24V	10A/250V 10A/24V	
Inductive load AC DC	5A/250V 5A/24V	5A/250V 5A/24V	
Mechanical life	> 30 x 10^6 opérations	> 30 x 10^6 opérations	
Maneuvers	72.000 operations/hour	72.000 operations/hour	
Electric life	360 operations/hour	360 operations/hour	
Contact material	AgNi 90/10	AgNi 90/10	
Max. voltage	440 VAC	440 VAC	
Operating voltage	250 VAC	250 VAC	
Between changeovers	2500 VAC	2500 VAC	
Between contacts	1000 VAC	1000 VAC	
Coil/contact voltage	5000 VAC	5000 VAC	
Coil/contact distance	10 mm	10 mm	
Insulation resistance	> 10^4 Mohms	> 10^4 Mohms	
	0	16 18	





SUPPLY VOLTAGE

Model Voltage	PxxA CA	DxxA CA	PxxA CC	DxxA CC	PxxA CA/CC	DxxA CA/CC
Galvanic isolation	Yes	Yes	No	No	Yes	Yes
Frequency	50/60 Hz	50/60 Hz	-	-	-	-
Working ranges	=	=	=	=	No	No
Consumption	1,4 VA	1,4 VA	1 W	1 W	1 W	1 W
Positive	-	-	Terminal 2	Terminal A1	Terminal 2	Terminal A1
Protected polarity	-	-	Yes	Yes	Yes	Yes
				+ 		

CONSTRUCTION AND ENVIRONMENTAL DATA

Model	PxxA	DxxA
Phase-neutral voltage	300 V	300 V
Overvoltage category		
Shock voltage	4 kV	4 kV
Pollution degree	2	3
Protection class	IP 20 B	IP 20
Approximate weight	250 g	280 g
Storage temperature	-50°C +85°C	-50°C +85°C
Work temperature	-20ºC +50ºC	-20°C +50°C
Humidity	30 85% HR	30 85% HR

DISIBEINT

MATERIALS

Model	PxxA	DxxA
Housing	Cycoloy Light grey	Cycoloy Light grey
Socket	Lexan Light grey	-
LED display	Lexan Transparent	Lexan Transparent
Buttons	Technyl Dark blue	Technyl Dark blue
Terminal blocks and flange	-	Technyl Dark blue
Socket terminals	Nickel plated brass	-
Block terminals	-	Brass

NORMS

Design and manufacturing	ECC standard
Electromagnetic compatibility	EMC 2014/30/UE from 02/26/2014 - Emission (EN 6100 6-4/2007/A1:2011) - Immunity (UNE-EN 6100 6-2/2006)
Low voltage directive	LVD 2014/35/UE from 02/26/2014 - Machinery (UNE-EN 60204-1/2007/A 1:2009) - Electronic measuring devices (UNE-EN 61010-1/2011)
Hazardous substances	The products do not contain: Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr +6), Polybrominated biphenyls (PBB), Diphenyl ethers (PBDE), Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Bybutyl phthalate (DBP) and Diisobutyl phthalate (DIBP). Any trace of impurities of the substances in the parts is below the levels specified by RoHS. No excepcions are made.
Plastics	UL 91 V0

DIMENSIONS

