

CONDOR™ Basic I Pro

Controller Solutions for multi-sensor CMMs



Product description

The CONDOR™ product family offers a comprehensive package of controllers for all kinds of multi-sensor CMMs and applications. Whether for machine builders or retrofitters, the CONDOR™ controller family stands for an integrated one-box solution consisting of either 3 or 4 main axes, 2 secondary axes and LED driver for 20 independent, individually programmable and dimmable LED sectors and illumination. This results in fewer cable connections, compactness and plug & play installation, while still offering the highest speed, exceptional machine throughput and accurate results.

System integration

Depending on the type of CONDOR™, up to 4 main axes and 2 secondary axes can be controlled. In addition up to 20 backlight LED channels with a total LED Power of 20 W can be driven via the CONDOR™. Also, the CONDOR™ communicates with a wide variety of measuring SW and with various tactile probes.

Technical Specifications

	CONDOR™ basic	CONDOR™ pro/3	CONDOR™ pro/3 Scan	CONDOR™ pro/4	CONDOR™ pro/4 Scan
General specifications					
▪ Configured for direct CNC controlled CMMs	✓	✓	✓	✓	✓
▪ Number of CMM axes controlled	3+2	3+2	3+2	4+2	4+2
▪ Communications link with PC	Ethernet	Ethernet and RS232	Ethernet and RS232	Ethernet and RS232	Ethernet and RS232
▪ Software integration	EAGLE.driver	EAGLE.driver	EAGLE.driver	EAGLE.driver	EAGLE.driver
▪ Integrated motor power supply	✓	✓	✓	✓	✓
▪ Touch-trigger probing function	✓	✓	✓	✓	✓
▪ TP200 interface	✓	✓	✓	✓	✓
▪ Measurement volume	X + Y = 3800 mm and Z = 800mm	unlimited	unlimited	unlimited	unlimited
▪ Pantec Support Tool	✓	✓	✓	✓	✓
▪ Emergency stop	✓	✓, extended	✓, extended	✓, extended	✓, extended
▪ Temperature sensor inputs (T-Bus™)	-	16	16	16	16
▪ SP600 interface	-	-	✓	-	✓
▪ SP25M interface	-	-	✓	-	✓
▪ SP80 interface	-	-	✓	-	✓
▪ Geometric Error Compensation	✓	✓	✓	✓	✓
Main Axis					
▪ Number of main axis	3	3	4	4	4
▪ Drive power	4 A / 60V	5 A / 60V	5 A / 60V	5 A / 60V	5 A / 60V
▪ Digital scale input RS422	✓	✓	✓	✓	✓
▪ Feedback	Encoder/Tachometer	Encoder/Tachometer	Encoder/Tachometer	Encoder/Tachometer	Encoder/Tachometer
▪ Motor types	DC-Brush	DC-Brush	DC-Brush	DC-Brush	DC-Brush
Secondary axis					
▪ Number of secondary axis	2	2	2	2	2
▪ Drive power	2 A / 24V	2 A / 24V	2 A / 24V	2 A / 24V	2 A / 24V
▪ Feedback	Encoder/Tacho- meter/Hall	Encoder/Tacho- meter/Hall	Encoder/Tacho- meter/Hall	Encoder/Tacho- meter/Hall	Encoder/Tacho- meter/Hall
▪ Motor types	DC-Brush/ Brushless/Stepper	DC-Brush/ Brushless/Stepper	DC-Brush/ Brushless/Stepper	DC-Brush/ Brushless/Stepper	DC-Brush/ Brushless/Stepper
LED Driver					
▪ Number of mid current LED	16	16	16	16	16
▪ Number of high current LED	4	4	4	4	4
▪ Total LED power	20 W	20 W	20 W	20 W	20W
Electrical Data					
▪ Nominal input power	550 VA	550 VA	550 VA	550 VA	550 VA
▪ Input voltage	115 VAC / 230 VAC	115 VAC / 230 VAC	115 VAC / 230 VAC	115 VAC / 230 VAC	115 VAC / 230 VAC
Physical Data					
▪ Dimension (L x H x T)	490 x 100 x 380 mm	490 x 135 x 380 mm	490 x 135 x 380 mm	490 x 135 x 380 mm	490 x 135 x 380 mm
▪ Weight	11 kg	20 kg	20 kg	20 kg	20 kg
▪ Rack mounting	19"	19"	19"	19"	19"
Product Configuration			230 VAC	115 VAC	
▪ CONDOR™ basic	3 axis CMM controller		34921	34922	
▪ CONDOR™ pro/3	3 axis CMM controller		35008	35009	
▪ CONDOR™ pro/3 Scan	4 axis CMM controller		35001	35012	
▪ CONDOR™ pro/4	4 axis CMM controller		35000	35001	
▪ CONDOR™ pro/4 Scan	4 axis CMM controller		35013	35014	