Technical specifications

Technical specifications of SinceVision sensors	
Measuring range	Edge: ±5mm
Transmitter-receiver distance	Max. 300mm
Light source	Semiconductor red laser
linearity	When the distance between transceiver and receiver is 100mm: ±0.4%F.S. (±40μm)
Repetition accuracy	2μm
Response time	250μs
interface	RS485
Ambient temperature/humidity	-20℃ ~ +50℃/35 ~ 85%RH (no condensation freezing)
Store temperature/humidity	-40℃ ~ +70℃/35 ~ 85%RH (no condensation freezing)
Protection class	IP67
Shell material	Aluminium alloy
dimension	21 mm x 61 mm x 10.6 mm

Controller main index		
Model number	SEA-DM2-A/V	SEA-DM2
Number of sensor head connections	Max. 2 pairs of sensor heads	Max. 2 pairs of sensor heads
Sensor head connection mode	M8 6-pin connector	M8 6-pin connector
Sensor head communication mode	RS-485 (maximum 20m cable)	RS-485 (maximum 20m cable)
Display measurement	TFT screen	TFT screen
Display light	Power indicator: Green; Output indicator: Red	Power indicator: Green; Output indicator: Red
I/O external input	1 way (also valid for sensor head channel 1/ Channel 2)	
I/O switching output	2 output PNP/NPN Optional open collector Max. 100mA/DC 24V Residual voltage less than 1.8V	
I/O analog output	2 output analog current/voltage Optional, current: 4 ~ 20mA (maximum load 300Ω) or voltage: 0 ~ 10V (output resistance 100Ω)	
Protection Level	IP50	IP50
Operating environment Temperature/Humidity	-20 ° C to +50 ° C /35 to 85%RH (without condensation freezing)	-20 ° C to +50 ° C /35 to 85%RH (without condensation freezing)
Storage environment temperature/humidity	-20 ℃~+70 ℃/35~85% RH (without condensation or freezing)	-20 ℃~+70 ℃/35~85% RH (without condensation or freezing)
Installation	DIN rail installation setting	DIN rail installation setting
shell material	PC+ glass fiber	PC+ glass fiber

EtherCAT communication unit technical specifications	
EtherCAT distance between nodes	Max. 100m
EtherCAT Transfer speed	100Mbps
EtherCAT mapping function	Process data communication, mailbox communication
Connect sensor connected models	Controller SEA-DM2
Connection Number of connections that can be made to sensors	Maximum 8 controllers (16 pairs of sensing heads)
Connection sensor connectable form	10-pin connector
PDO communication data transmission	support
SDO communication data transfer	support
Use ambient temperature/humidity	-20℃ ~ +50℃/35 ~ 85%RH (no condensation freezing)
Storage environment temperature/humidity	-40℃ ~ +70℃/35 ~ 85%RH (no condensation freezing)
Protection class	IP50
install	35mm DIN Rail (conductive)
Shell material	PC+ Glass fiber

Model description of the deviation correcting sensor	
Transmitting sensing head	SE1-010K4-T
Receiving sensor head	SE1-010K4-R
controller	SEA-DM2-A/V; SEA-DM2
EtherCAT Universal Communication module	SU1-EC
2m long Y-shaped cable	SCB-EY-HA3-2m
5m long Y-shaped cable	SCB-EY-HA3-5m
5m long extension cable	SCB-EF-HA3-5m