

高性能電子式ロータリカム High Performance Cam Controller DCR-361 *JIGITAL CAM*

周辺機器との確かなつながり



First development in the industry for "Switch On instantaneous Angle Adjustment" **O** Features for both AC & DC.Most improved productivity High precision octuple cam supported by PhotoMOS relay. Switch-On instantaneous Angle Adjustment function Expedite the output angle to meet the stamping press actual speed, detecting any short delay of peripheral devices. outputs. PhotoMos relay for both AC and DC applications Sugiyama's digital cam controller, DCR-361, made it possible to output equal or better con-Supports both AC and DC peripheral devices. tact signal than mechanical rotary cam, detecting the stamping press rotation speed with a magnetic encoder. Improved productivity can be realized by connecting its outputs to the Press die management, Bank function mounted. 8 channel outputs per press die can be memorized. Up to 100 peripheral devices like transferring system, ejector, malfunction detector, automation press dies can be registered. system. Numeric keypads are made for very easy operation. Part Names of Cam Controller Off command by the timer BANK/CH (channel) display Displays a press die number and a channel number. CAM CONTROLLER DCR-361 SUGIYAMA ELECTRIC FUNC (function) button Push to select a function of the controller. BANK FUNC ON Numeric Value Changer Button CH1 TIMER OFF Channel output lamps CH2 (ms) Lit while each cam outputs signal. BANK CH3 8 C TEACH CH4 SPM (rotation speed)/DEG (angle) display CH5 CH6 CH7 Angle Indicator (LDEs on circle) CH8

C Rear Panel



Example of part No. DCR-361-L05 05 - 10 210 (3) (4) ①24-core power/output cable length ②5-core encoder cable length

| ⊐ード Code | 24芯長さ 24-core length | コード |
|----------|----------------------|-----|
| 05 | 5M | 0 |
| 08 | 8M | 0 |
| 10 | 10M | 10 |
| 15 | 15M | 1: |
| 20 | 20M | 20 |

shaft from stamping press コード Code 軸穴径 Shaft hole dlamet Code 5芯長さ5-core length 8M 10M

15M

20M

(3) Pulley bore diameter for the

6Φ

8Ф

10*¢*

15 d

16 d

18 Ø

20 Ø

06

80

10

<u>15</u> 16

18

20

| ④ Distance between shaft axes of Enc |
|--------------------------------------|
| and stamping press & Belt length |

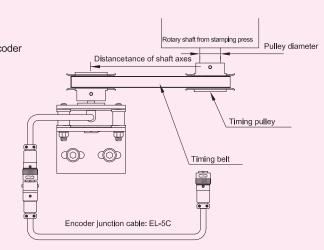
| | コード Code | 軸間距離 Distance of Shafts |
|---|----------|-------------------------|
| | 80 | 46mm |
| _ | 90 | 58mm |
| r | 100 | 71mm |
| | 110 | 84mm |
| | 130 | 110mm |
| | 150 | 135mm |
| _ | 170 | 160mm |
| _ | 190 | 185mm |
| _ | 210 | 211mm |
| | 230 | 236mm |
| | | |







- High performance of motion detecting function. Encoder signals are continuously monitored to stop a stamping press when malfunction is found.
- "Sub" PhotoMOS relay for DC applications
 - Extra 8 channels are available at the rear side panel for spare
- Backlash absorbing function
- Maulfuction caused by the wobbling shaft where an encoder is
- Simultaneous angle indication
- Follow-up speed Amazingly high speed of 3600 spm supported
 - **BANK** button
 - Push to change/register press die numbers.
 - **ON/OFF** buttons
 - Push to change angles.
 - **ON/OFF** angle display
 - **TEACH** button
 - Current angle of stamping press can be input into on/off angles
 - **CLEAR** button
 - Numeric keypad
 - **TIMER** button
 - Off command can be made with the timer. Used for timer ejector.



Specifications & Capability



| Supply Voltage | | AC100 to 240V±10% 50/60Hz |
|--|-----------|---|
| Power Consumption | | Less than 10W |
| Channel | | 8 channels |
| Bank | | 100 banks |
| Resolution | | 360ppr |
| Angle Display | | 0 to 359 (1°Step) |
| Output | Connector | AC240V 1A DC60V 1A |
| | Terminals | AC/DC 60V 1A |
| Roulette Display | | 10° Step |
| Follow-up Speed | | 3600SPM (※5000 Cam angle: 1 degrees) |
| Back-up memory life | | 10 years |
| Operating Temperature Range | | $0 \sim +55^{\circ}$ C No dew deposition and no freeze permitted. |
| Operating Humidity Range | | 35~85%RH No dew deposition permitted. |
| Weight | | 2.4Kg (including 0.8 kg. of bracket) |
| Main Body Dimensions excluding attachments | | 200 (W) × 100 (H) × 180 (D) |

X an actual measurement

Angle switching Rotary Encoder

Magnetic Rotary encoder Long life by the magnetic encoder, strong against oil contamination. 0 0 to, 9 Ŧ Ŧ U H 09 40 9 9 1 20_ 12 20 60 73 Cable length: 500mm Main Body Configuration 180 200 44 CAM CONTROLLER DCR-361 SUGIYAMA ELECTRI ⊕ 0 🔺 👿 РОЖС 10 000000 TIMER OFF 6U 00 Сн6 Сн7 0123 0 1 0 сн Ф 80 Ð æ 16 15 Ш ⊞ ⊞ 35 Q 37 158 27.5 22 80 106 37 Safety Control Systems * The content of this catalogue is subject to change without any advanced notice. 不 ·I 木工 SUGIYAMA ELECTRIC CO., LTD Sales Representative, Agent or Distributor: Headquarters & Main Plant 2-290 OUSU MINATOKU NAGOYA AICHI 455-0801 JAPAN TEL. 81-52-381-4893 FAX. 81-52-383-5445 Tokyo Sales Office TEL. 81-3-3838-2040 FAX 81-3-3838-5325 Osaka Sales OfficeTEL 81-6-6692-0931 FAX. 81-6-6692-0869

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