Roll Off Roof Observatory Wiring Diagram for ScopeDomeUSB Card ver. 1.1 and 3Phase Motors

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Observatory Wall

380VAC / 3 phase Roof Motor

U V W PE

W12 4x0.25mm

380VAC

LG SV iE5 Inverter

230VAC

CM P2 P1 R S PE

L N

Open Sensor
Dome Top

Close Sensor
Dome Front

Open Limit Switch

Close Limit Switch

NO NC

W8 4x0.25mm

W9 4x0.25mm

W11 3x0.25mm

W13 3x0.25mm

W10 2x0.25mm

OLS1 OLS2 OSE3 OSE4 CLS1 CLS2 CSE3 CSE4 Com P1 P2 L N PE LL LN

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

OSE3 OSE4 CSE3 CSE4 Close Open Com 230 L 230 N PE Light L Light N Free 1 Free 2

14x0.25mm W7

magnet

Telescope At Park Sensor (magnetic)

2x0.25mm W3

Encoder

5V GND OUT

GND Open Sensor

GND Close Sensor

GND Home Sensor

ScopeDomeUSB Card ver. 1.1

USB

Remote Control

COMPUTER

USB TCP/IP INTERNET

O R C L

REMOTE CONTROL

Open - Close Com - Com - PE

MOTOR2 M2

CW - CCW Com - Com - PE

MOTOR1 M1

DOME CONTROL MODULE 062008

K1 K2 K3 K4 K5 K6 K7 K8 T1 F4 F5 4A 4A P12 P13 P14 P15 C1

Fan CCD Light Scope 230VAC Main Power

N PE L

Power Plug 230V AC

Fan

CCD

TELESCOPE

Observatory Computer

W1 3x0.25mm

L N PE UPS 1500W L N PE

230VAC MAIN POWER LINE

PE N L

C 16A

C 16A

Roof
Optional part for
Roof with telescope window shutter

380VAC / 3 phase Roof Shutter Motor

U V W PE

W5 4x0.25mm

380VAC

LG SV iE5 Inverter

230VAC

CM P2 P1 R S PE

L N

Limit Switch

3x0.25mm W4

Roof Shutter Open Sensor (magnetic)

magnet

3x0.25mm W6

2x0.25mm

Draw for print on A3 Format