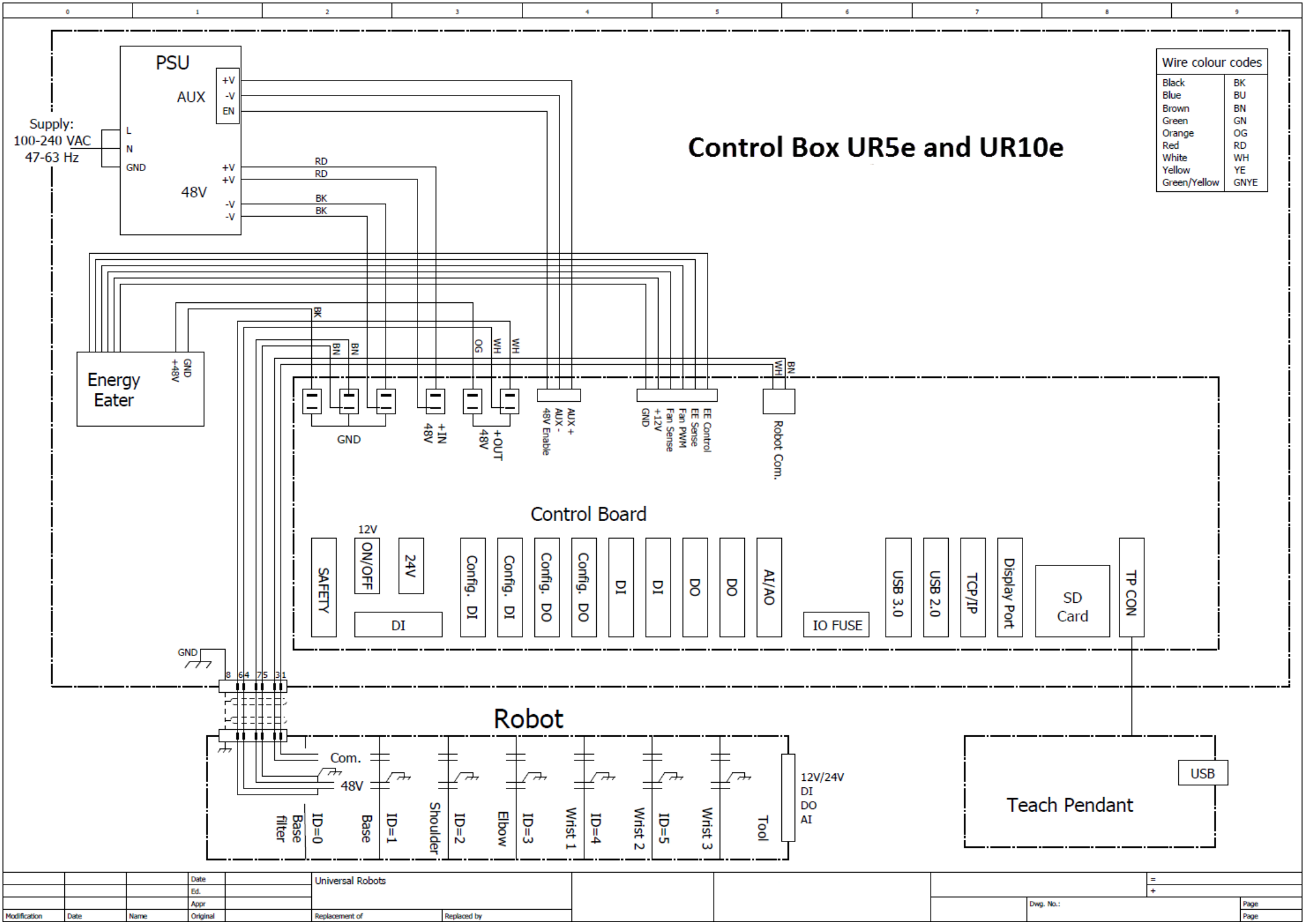
Control Box UR5e and UR10e
Wire colour codes
Black BK
Blue BU
Brown BN
Green GN
Orange OG
Red RD
White WH
Yellow YE
Green/Yellow GNYE
PSU
AUX
+V
-V
EN
Supply:
100-240 VAC
47-63 Hz
L
N
GND
48V
+V
+V
-V
-V
RD
RD
BK
BK
Energy Eater
GND
+48V
BK
BN
BN
OG
WH
WH
BN
WH
GND
+IN 48V
+OUT 48V
AUX +
AUX -
48V Enable
EE Control
EE Sense
Fan PWM
Fan Sense
+12V
GND
Robot Com.
Control Board
12V
ON/OFF
24V
SAFETY
DI
Config. DI
Config. DI
Config. DO
Config. DO
DI
DI
DO
DO
AI/AO
IO FUSE
USB 3.0
USB 2.0
TCP/IP
Display Port
SD Card
TP CON
GND
8 6 4 7 5 3 1
Robot
Com.
48V
Base filter
ID=0
Base
ID=1
Shoulder
ID=2
Elbow
ID=3
Wrist 1
ID=4
Wrist 2
ID=5
Wrist 3
Tool
12V/24V
DI
DO
AI
Teach Pendant
USB
Universal Robots
Date
Ed.
Appr
Modification
Date
Name
Original
Replacement of
Replaced by
Dwg. No.:
Page
Page