UNICAT 33BM EPS channel allocation

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file: Y:\home\jemian\visio\33BM\[33BMA-EPS-wiring.xls]Sheet1

			channel name	location / signal source	comments	PLC	24VDC supply	local cable type
X	0	0	PLC_num LSB		PLC ID number = 5	TB1-A0	+24VDC	
X	0	1	PLC_num			TB1-A1	0 VDC	
X	0	2	PLC_num			TB1-A2	+24VDC	
X	0	3	PLC_num MSB			TB1-A3	0 VDC	
X	0	4	ver_num LSB		software version = 1	TB1-A4	+24VDC	
X	0	5	ver_num			TB1-A5	0 VDC	
X	0	6	ver_num			TB1-A6	0 VDC	
X	0	7	ver_num MSB			TB1-A7	0 VDC	
					common for bank A	TB1-CI	0 VDC	
							+24VDC	Proteus black
X	1	0	Mask flow1 NO	mask between front end and beam line		TB1-B0		Proteus red
X	1	1	Mask flow1 NC			TB1-B1		Proteus green
							+24VDC	
X	1	2	L3 flow2 NO	L3 white slits	all channels in series	TB1-B2		
X	1	3	L3 flow2 NC			TB1-B3		
							+24VDC	
X	1	4	M1 flow3 NO	Mirror 1		TB1-B4		
X	1	5	M1 flow3 NC			TB1-B5		
							+24VDC	
X	1	6	BW flow4 NO	Beryllium Window		TB1-B6		
X	1	7	BW flow4 NC			TB1-B7		
					common for bank B	TB1-CII	0 VDC	
							+24VDC	
X	2	0	DCM xtal1 flow5 NO	DCM crystal 1		TB1-C0		
X	2	1	DCM xtal1 flow5 NC			TB1-C1		
							+24VDC	
X	2	2	DCM xtal2 flow6 NO	DCM crystal 2	not an EPS item	TB1-C2		
X	2	3	DCM xtal2 flow6 NC			TB1-C3		
							+24VDC	
X	2	4	BS flow7 NO	beam stop		TB1-C4	+24VDC	
X	2	5	BS flow7 NC			TB1-C5	0 VDC	
X	2	6	flow8 NO	unused		TB1-C6	+24VDC	
X	2	7	flow8 NC			TB1-C7	0 VDC	
					common for bank C	TB1-CIII	0 VDC	
							+24VDC	
X	3	0	M1 vac1 OK	Mirror 1 ion gauge		TB1-D0		
X	3	1	DCM vac2 OK	DCM ion gauge		TB1-D1		
X	3	2	M2 vac3 OK	Mirror 2 ion gauge	not an EPS item	TB1-D2		
X	3	3	vac4 OK			TB1-D3		
X	3	4	vac5 OK			TB1-D4		
X	3	5	vac6 OK			TB1-D5		
X	3	6	vac7 OK			TB1-D6		
X	3	7	vac8 OK			TB1-D7		
					common for bank D	TB1-CIV	0 VDC	
							+24VDC	
X	4	0	pt1 OK			TB2-A0		
X	4	1	pt2 OK			TB2-A1		
X	4	2	pt3 OK			TB2-A2		
X	4	3	pt4 OK			TB2-A3		

X	4	4	pt5 OK			TB2-A4		
X	4	5	pt6 OK			TB2-A5		
X	4	6	pt7 OK			TB2-A6	+24VDC	
X	4	7	pt8 OK			TB2-A7	+24VDC	
					common for bank A	TB2-CI	0 VDC	
							+24VDC	
X	5	0	DCM gv1 open1	DCM Turbo gate valve	must be closed	TB2-B0		
X	5	1	DCM gv1 open2			TB2-B1		
X	5	2	DCM gv1 close1			TB2-B2		
X	5	3	DCM gv1 close2			TB2-B3		
X	5	4	BS gv2 open1	beam stop gate valve	not an EPS item	TB2-B4		
X	5	5	BS gv2 open2			TB2-B5		
X	5	6	BS gv2 close1			TB2-B6		
X	5	7	BS gv2 close2			TB2-B7		
					common for bank B	TB2-CII	0 VDC	
							+24VDC	
X	6	0	unused			TB2-C0		
X	6	1	unused			TB2-C1		
X	6	2	unused			TB2-C2		
X	6	3	unused			TB2-C3		
X	6	4	unused			TB2-C4		
X	6	5	unused			TB2-C5		
X	6	6	unused			TB2-C6		
X	6	7	unused			TB2-C7		
					common for bank C	TB2-CIII	0 VDC	
							+24VDC	
X	7	0	unused			TB2-D0		
X	7	1	unused			TB2-D1		
X	7	2	unused			TB2-D2		
X	7	3	unused			TB2-D3		
							+24VDC	
X	7	4	FE vac valve	FE-EPS	1/16 Amp fuse	TB2-D4		
							+24VDC	
X	7	5	FE white shtr	FE-EPS	1/16 Amp fuse	TB2-D5		
							+24VDC	
X	7	6	mono shtr	FE-EPS	1/16 Amp fuse	TB2-D6		
							+24VDC	
X	7	7	reserved			TB2-D7		
					common for bank D	TB2-CIV	0 VDC	
Y	0	0	BL Vac OK	FE-EPS	1/16 Amp fuse			
Y	0	1	FE white shtr perm	FE-EPS	1/16 Amp fuse			
Y	0	2	mono shtr perm	FE-EPS	1/16 Amp fuse			
Y	0	3	reserved					
Y	0	4	reserved					
Y	0	5	reserved					
Y	0	6	reserved					
Y	0	7	reserved					