

Smiths Industries H6 Director Horizon - J. Reiding / www.polytech.nu / 20230601

display order	connector	group	subgroup	description	pin code	wire color	wire number	details	notes
1	DH2 (19-pin)	flags	horizon flag	'horizon' flag +28 VDC	M	red	50	'horizon' flag '+' left bottom	28 VDC other side of the solenoid is connected to 'N'
2	DH2 (19-pin)			'horizon' flag return	N	black	1	'horizon' flag '+' left bottom	28 VDC other side of the solenoid is connected to 'M'
3	DH1 (41-pin)	flags	error flag	'+' error flag return	q	black	54	error flag '+' right bottom	28 V / 28 mA
4	DH1 (41-pin)			'+' error flag +28 VDC	h	red	54	error flag '+' right bottom	
5	DH1 (41-pin)	illumination	panel illumination	panel illumination	X	white	1	dial illumination	5 V 840 mA
6	DH1 (41-pin)			panel illumination	k	white	10	dial illumination	
7	DH1 (41-pin)	artificial horizon	power input	pitch/roll power input +115 VAC 400 Hz	A	red	215	+115 VAC 400 Hz powersupply in	
8	DH1 (41-pin)			pitch/roll power input return	W	red	29	common ground	
9	DH1 (41-pin)	artificial horizon	roll	master roll synchro stator inputs [C]	L	red	22	input synchro for roll indicator	26 VAC 400 Hz synchro (rotor signals connected to amplifier)
10	DH1 (41-pin)				M	orange	22	input synchro for roll indicator	26V08CX4(D) [26V rotor/11,8V stator/400Hz]
11	DH1 (41-pin)				e	black	22	input synchro for roll indicator	
12	DH1 (41-pin)	artificial horizon	pitch	master pitch synchro stator inputs [F]	J	red	23	input synchro for pitch indicator	26 VAC 400 Hz synchro (rotor signals connected to amplifier)
13	DH1 (41-pin)				H	orange	23	input synchro for pitch indicator	26V08CX4(D) [26V rotor/11,8V stator/400Hz]
14	DH1 (41-pin)				c	black	23	input synchro for pitch indicator	
15	DH2 (19-pin)	artificial horizon	roll	slave roll synchro transformer CT/RS [H]	J	black	5	stator winding (S1)	26 VAC 400 Hz synchro transformer (CT) CT/RS [26V rotor/10,4V stator/400Hz]
16	DH2 (19-pin)				G	orange	51	stator winding (S2)	
17	DH2 (19-pin)				H	red	52	stator winding (S3)	
18	DH2 (19-pin)				K	orange/white	51	rotor/reference winding (R1)	
19	DH2 (19-pin)				U	black/white	50	rotor/reference winding (R2)	
20	DH2 (19-pin)				T	red/white	50	rotor/reference winding (R3)	
21	DH2 (19-pin)				D	black	50	stator winding (S1)	
22	DH2 (19-pin)	C	orange	50	stator winding (S2)	26 VAC 400 Hz synchro transformer (CT) CT/RS [26V rotor/10,4V stator/400Hz]			
23	DH2 (19-pin)	B	red	51	stator winding (S3)				
24	DH2 (19-pin)	E	red/white	5	rotor/reference winding (R1)				
25	DH2 (19-pin)	R	black/white	1	rotor/reference winding (R2)				
26	DH2 (19-pin)	P	orange/white	50	rotor/reference winding (R3)				
27	DH1 (41-pin)	artificial horizon	roll	slave roll synchro transmitter CX [D]	D	red	20	stator winding (S1)	26 VAC 400 Hz synchro 26V08CX4(D) [26V rotor/11,8V stator/400Hz]
28	DH1 (41-pin)				Y	orange	20	stator winding (S2)	
29	DH1 (41-pin)				Z	black	20	stator winding (S3)	
30	DH1 (41-pin)				B	red/white	23	rotor/reference winding (R1)	
31	DH1 (41-pin)	C	black/white	23	rotor/reference winding (R2)				
32	DH1 (41-pin)	artificial horizon	pitch	slave pitch synchro transmitter CX [E]	t	black	21	stator winding (S1)	26 VAC 400 Hz synchro 26V08CX4(D) [26V rotor/11,8V stator/400Hz]
33	DH1 (41-pin)				m	red	21	stator winding (S2)	
34	DH1 (41-pin)				a	orange	21	stator winding (S3)	
35	DH1 (41-pin)				E	red/white	22	rotor/reference winding (R1)	
36	DH1 (41-pin)				F	black/white	22	rotor/reference winding (R2)	
37	DH1 (41-pin)	ILS	power input	ILS/glideslope power input +115 VAC 400 Hz	P	blue	607	+115 VAC 400 Hz powersupply input	
38	DH1 (41-pin)			ILS/glideslope power input return	R	blue	606	common ground	
39	DH1 (41-pin)	ILS	ILS input	vertical ILS marker signal input	S	blue	604	Vertical ILS input	The phase shift (compared to the power input P+R) results in line movement.
40	DH1 (41-pin)			horizontal ILS marker signal input	T	blue	605	Horizontal ILS input	The phase shift (compared to the power input P+R) results in line movement.
41	DH1 (41-pin)			ILS signal input common return	U	blue	603	ILS inputs common	
42	DH1 (41-pin)	general	ground	common ground	f	black	-	common ground	
43	DH1 (41-pin)	general	ground	common ground	j	black	-	common ground	
44	DH1 (41-pin)	general	ground	common ground	r	black	-	common ground	
45	DH1 (41-pin)	general	ground	common ground	s	black	-	common ground	
46	DH2 (19-pin)	general	ground	common ground	V	black	-	common ground	
47	DH2 (19-pin)	general	ground	common ground	S	black	-	common ground	
48	DH2 (19-pin)	general	ground	common ground	F	black	-	common ground	
49	DH1 (41-pin)	general	ground	chassis ground	N	black	1	chassis	Not for power input!
50	DH1 (41-pin)	general	not connected	not connected	b	-	-	not connected	
51	DH1 (41-pin)	general	not connected	not connected	d	-	-	not connected	
52	DH1 (41-pin)	general	not connected	not connected	n	-	-	not connected	
53	DH1 (41-pin)	general	not connected	not connected	p	-	-	not connected	
54	DH1 (41-pin)	general	not connected	not connected	q	-	-	not connected	
55	DH1 (41-pin)	general	not connected	not connected	i	-	-	not connected	
56	DH1 (41-pin)	general	not connected	not connected	G	-	-	not connected	
57	DH1 (41-pin)	general	not connected	not connected	K	-	-	not connected	
58	DH1 (41-pin)	general	not connected	not connected	V	-	-	not connected	
59	DH2 (19-pin)	general	not connected	not connected	A	-	-	not connected	
60	DH2 (19-pin)	general	not connected	not connected	L	-	-	not connected	