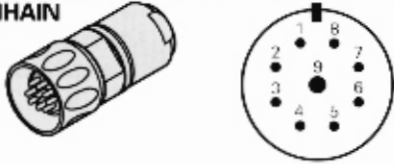

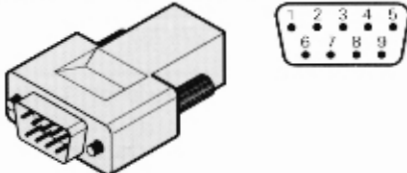
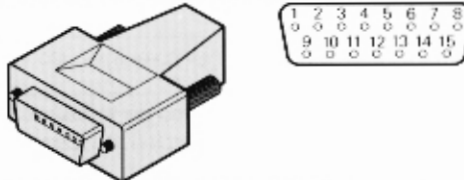


# Connection

~ 11  $\mu$ App

<b>9-pin HEIDENHAIN connector</b> 						<b>9-pin flange socket</b> 			
1	2	5	6	7	8	3	4	Housing	9
I <sub>1</sub>		I <sub>2</sub>		I <sub>0</sub>		5 V U <sub>P</sub>	0 V U <sub>N</sub>	External shield	Internal shield
+	-	+	-	+	-				
Green	Yellow	Blue	Red	Gray	Pink	Brown	White		White/Brown
IEC742 EN 50 178									

<b>9-pin D-sub-connector for HEIDENHAIN IK 121A counter card</b> 									
6	1	8	3	9	5	7	2	Housing	4
I <sub>1</sub>		I <sub>2</sub>		I <sub>0</sub>		5 V U <sub>P</sub>	0 V U <sub>N</sub>	External shield	Internal shield
+	-	+	-	+	-				
Green	Yellow	Blue	Red	Gray	Pink	Brown	White		White/Brown
IEC742 EN 50 178									

<b>15-pin D-sub-connector for HEIDENHAIN contouring control TNC 410, TNC 426, TNC 430</b> 									
3	4	6	7	10	12	1	2	Housing	5
I <sub>1</sub>		I <sub>2</sub>		I <sub>0</sub>		5 V U <sub>P</sub>	0 V U <sub>N</sub>	External shield	Internal shield
+	-	+	-	+	-				
Green	Yellow	Blue	Red	Gray	Pink	Brown	White		White/Brown
IEC742 EN 50 178									