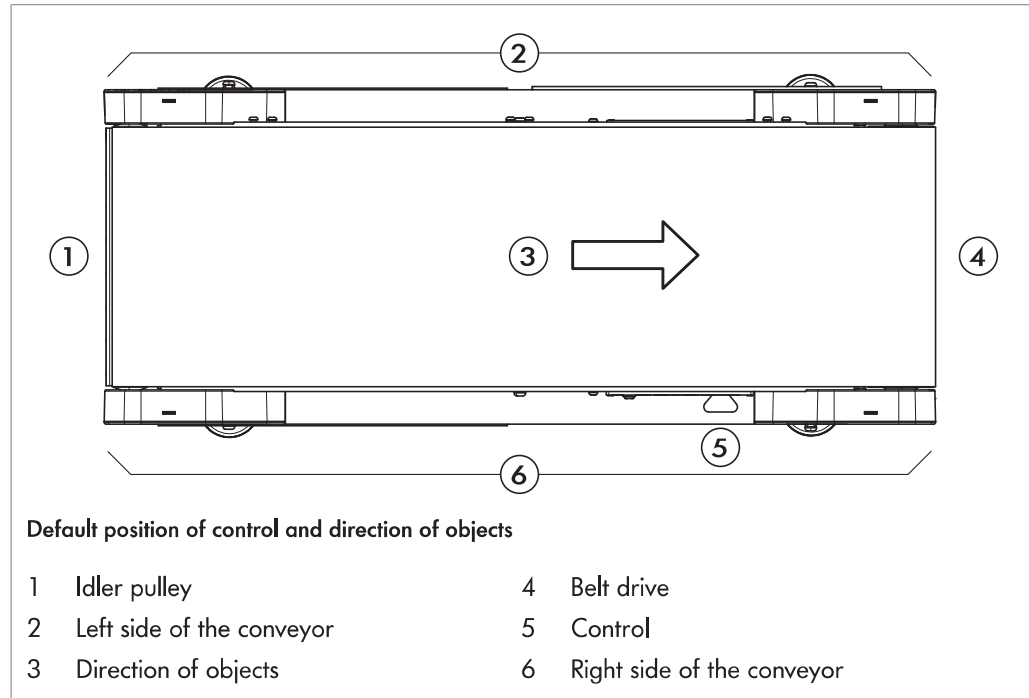


Interroll Straight Conveyor and Transfer Conveyor

Product identification



Technical data

Straight Conveyor

General technical data

Design	The conveyors are designed based on Interroll light industrial conveyor systems with its all profile and enhanced new design with covers and well integrated control. LCP consists of straight, incline, decline and transfer conveyors.
Load capacity	Small: 0 to 25 kg (0.1 to 0.92 m/s) Large: 25 to 50 kg (0.13 to 0.4 m/s)
Dimensions of conveyed load	VDA boxes, plastic bags <ul style="list-style-type: none"> • min. 80 x 80 x 10 mm • max. 600 x 600 x 600 mm
Conveyor belt speed	see "table 80SMP Belt Drives for LCP Straight Conveyor", page 15
Conveyor size	Module length CL: 1,000 / 2,000 / 3,000 mm Rated width BF: 320 / 420 / 620 mm
Min. height	620 mm (650 mm with feet)
Max. height	1700 mm *
Incline/decline	Max. 18°
Ambient temperature	Operation: +5 to +40 °C
Humidity	93 %
Degree of cleanliness	Operating environment: IP22

Interroll Straight Conveyor and Transfer Conveyor

Product identification

Straight Conveyor	
Noise level	Leq < 60 db(A)
Belt drive and idler	
Drive voltage	3 x 400 V/50 Hz 3 x 460 V/60 Hz
Speed	Belt drive speed is typically 5 % lower than belt speed
Power	85 -120 W
Ø Belt drive	80 mm
Ø Idler pulley	40 mm
Ø Support roller	50 mm
Materials	
Frame, support legs and profile	2 mm hot-dip coated galvanized steel
Side covers	Polymer
Cable channels cover	Polymer
Safety end covers	1.5 mm galvanized steel
Belt drive	Shell: tube with surface protection End housings and shaft caps: aluminum
Idler pulley	Shell and shaft: uncoated steel End caps and end housings: techno polymer
Belt	Standard belt for straight conveyor: NHM-8EKBV, see "Belt types", page 69 Belt for incline/decline conveyor: NSL-7EEBV, see "Belt types", page 69 Other belt types available on request.

* Pay attention to compliance with regulations for higher use.

Electrical data

Rated velocity v_{belt} * [m/s]	0.10	0.13	0.16	0.17	0.19	0.23	0.25	0.28	0.40	0.63	0.76	0.92
Max. load on conveyor** [kg]												
straight	50	50	50	50	50	50	50	50	50	25	25	25
incline/decline 18°	50	50	50	50	50	50	50	30	30	25	25	25

80SMP Belt Drives for LCP Straight Conveyor

* V_{belt} speed calculated with 2 mm thick belt; will change with other types of belts.

** Max. load on straight conveyor is "anticipated"; test must confirm these data.

Interroll Straight Conveyor and Transfer Conveyor

Product identification

Technical data

Transfer Conveyor	
General technical data	
Design	The transfer conveyor is designed to transfer the goods to the vertical direction of the straight conveyor. The belt has special rubber vulcanized driver, special slider bed and rollers to be suitable for such transaction.
Load capacity	Small: 0 to 25 kg (0.1 to 1.04 m/s) Large: 25 to 50 kg (0.14 to 0.28 m/s)
Dimensions of conveyed load	VDA boxes, plastic bags <ul style="list-style-type: none"> • min. 80 x 80 x 10 mm • max. 600 x 600 x 600 mm
Conveyor belt speed	see "table 80SMP Belt Drives for LCP Transfer Conveyor", page 18
Conveyor size	Module length CL: 1,500 mm Rated width BF: 320 / 420 / 620 mm
Min. height	620 mm
Max. height	1700 mm *
Incline/decline	0°
Ambient temperature	Operation: +5 to +40 °C
Humidity	93 %
Degree of cleanliness	Operating environment: IP22
Noise level	Leq < 60 db(A)
Belt drive and idler	
Drive voltage	3 x 400 V/50 Hz 3 x 460 V/60 Hz
Speed	Belt drive speed is typically 5 % lower than belt speed
Power	85 -120 W
Ø Belt drive	90 mm
Ø Idler pulley	50 mm
Ø Support roller	50 mm



Interroll Straight Conveyor and Transfer Conveyor

Product identification

Transfer Conveyor	
Materials	
Frame, support legs and profile	2 mm hot-dip coated galvanized steel
Side covers	Polymer
Cable channels cover	Polymer
Safety end covers	1.5 mm galvanized steel
Belt drive	Shell: tube with surface protection End housings and shaft caps: aluminum
Idler pulley	Shell: galvanized End housings and end caps: techno polymer
Belt	Belt for transfer conveyor: NNT-10ENBU, see "Belt types", page 69 Other belt types available on request.

* Pay attention to compliance with regulations for higher use.

Electrical data

Rated velocity v_{belt} * [m/s]	0.12	0.14	0.18	0.19	0.21	0.26	0.28	0.32	0.45	0.71	0.85	1.04
Max. load on transfer** [kg]	50	50	50	50	50	50	50	50	50	25	25	25

80SMP Belt Drives for LCP Transfer Conveyor

* V_{belt} speed calculated with 2 mm thick belt; will change with other types of belts.

** Max. load on straight conveyor is "anticipated"; test must confirm these data.

The belt drives for the transfer conveyors are manufactured with 5 mm thick rubber lagging with a center V-groove to adapt to the belt profile. This thickness causes higher belt speed.



Interroll Straight Conveyor and Transfer Conveyor

Product identification

Scope of delivery

The scope of supply of the LCP 400-V-control contains the following components:

- LCP 400-V-control
- Four screws for fastening the LCP 400-V-control

Technical data

Model	Main Control CO6601	Local Control CO6602	Digital Control CO6603	Network Control CO6604
Function				
Description	Power motor control with build-in safety system for stand-alone solutions	Motor control with internal network	Power motor control with digital I/O for PLC solutions	Power motor control with network communication for PLC solutions
Power				
Input voltage	380 - 480 V AC	-	380 - 480 V AC	380 - 480 V AC
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Input phases	3	-	3	3
Max. power consumption	150 - 880 W **	150 - 660 W	150 - 1320 W	150 - 1320 W
Max. current consumption	0.5 - 2 A	0.5 - 2 A	0.5 - 3 A	0.5 - 3 A
Main fuses	3,15 A (glass fuse)	-	3,15 A (glass fuse)	-
Motor fuses	2 A (manual reset)	2 A (manual reset)	2 A (manual reset)	2 A (manual reset)
Motor voltage supply	380-480 V AC	-	380 - 480VAC	380 - 480 V AC
Motor frequency	50/60 Hz	50/60 Hz	50/60Hz	50/60 Hz
Motor phase	3	-	3	3
Motor max. power output	120 W	-	120 W	120 W
Softstart ramp	Yes	Yes	Yes	Yes
Output voltage	380 - 480 V AC	-	380 - 480 V AC	380 - 480 V AC
Output frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Output phases	3	-	3	3
Safety				
Build in safety system	Yes	No	No	No
Safety sensor input	Yes	No	No	No
Loop for external safety system	Yes	Yes	No	No

Interroll Straight Conveyor and Transfer Conveyor

Product identification

Model	Main Control CO6601	Local Control CO6602	Digital Control CO6603	Network Control CO6604
Signals				
Photo Sensor input S1	PNP/NPN	No	PNP/NPN	PNP/NPN
Photo Sensor input S2	PNP/NPN	PNP/NPN	PNP/NPN	PNP/NPN
Signal input	Yes	Yes	Yes	Yes
Signal output	Yes	Yes	Yes	Yes
Digital I/O	Yes	No	Yes	Yes
Network bus *	No	No	No	Yes
Environment				
Operating temperature	0 - +40 °C	0 - +40 °C	0 - +40 °C	0 - +40 °C
Max. operating relative humidity	93 %	93 %	93 %	93 %
IP Class	IP22	IP22	IP22	IP22
CE approval	Yes	Yes	Yes	Yes
UL approval	Yes	Yes	Yes	Yes
Dimensions				
Mass	1320 g	1320 g	1320 g	1320 g
Width	177 mm	177 mm	177 mm	177 mm
Hight	53 mm	53 mm	53 mm	53 mm
Depth	265 mm	265 mm	265 mm	265 mm

* Bus standard: ProfiNet, EtherNet/IP, EtherCat

** The maximum power consumption of 880 W refers to 1 main control and 3 local controls.