

Photoelectric sensors

SmartReflect – background-reflective sensor FNDx

- Prevents machine downtimes for replacing destroyed reflectors
- Eliminates complicated integration of a reflector into the hygienic design of the system
- Most reliable form of object detection using beam interruption
- Reflects off stainless steel and can use parts of the machine as reference
- Special stainless steel reflector, EHEDG certified, available as an option

Hygienic design Series FxDH



Washdown design Series FxDR



Technical features

Ambient temperature	-30 ... +60 °C
Setting	Remote Teach-in
Connection type	Cable (PVC), M12-plug, M12 cable plug
Communication	IO-Link (optional)
Protection class	IP 68/IP 69K <i>proTect+</i>

	Diffuse sensors with BGS*		SmartReflect NEW		Retro-reflective sensor		Contrast sensor		Distance sensor	
Type	FHDH	FHDR	FNDH	FNDR	FPDH	FPDR	FKDH	FKDR	FADH	FADR
Sensing distance	400 mm		800 mm		3500 mm		12,5 mm		400 mm	
Response time	< 1,8 ms		< 1,8 ms		< 1 ms		50 µs		< 5 ms	
Light source	Red light		Red light		Red light		White light		Red light	

*Background suppression

Reflector FTDR 051E051



Stainless steel reflector FTDR 050R060



Stainless steel reflector FTDR 017W035

